

# MASSACHUSETTS AMBULANCE TRIP RECORD INFORMATION SYSTEM (MATRIS)

Effective May 5, 2011

## MATRIS Version 1.5.1

*(Supersedes Version 1.5 Effective 12/15/2010 Version 1.4, Effective 3/19/2009 and Version 1.3, Effective 5/1/2008)*

The Massachusetts Ambulance Trip Record Information System (**MATRIS**) is based on the National Highway Traffic Safety Administration's (NHTSA) EMS Dataset Version 2.2.1. The NHTSA Dataset was created through a consensus based national data conference of professional organizations and federal partners which included the National Association of State EMS Directors and the Trauma/EMS Systems program of the Health Resources and Services Administration's (HRSA) Maternal Child Health Bureau and is known as **NEMSIS**, the National EMS Information System.

The goal of **NEMSIS** is to provide a standard for the collection of local, state, and federal data with consistent definitions and formatting suitable to evaluate the responsiveness and effectiveness of emergency medical services. High quality data will assist EMS agencies to identify service areas that need further improvement and promote decision making, protocol refinement, and resource allocation based on solid evidence.

In attached the Massachusetts Ambulance Trip Record Information System (**MATRIS**), those data elements to be collected as part of a National EMS Database are labeled **National Element** in the upper right hand corner. The additional data elements proposed for **MATRIS** are not labeled **National Element**. The dataset includes three separate components. A Demographic Dataset provides a standardized set of definitions describing an EMS System. An EMS Dataset provides a standardized set of definitions describing an EMS event, and an XML format and definition created to promote the movement of the **NEMSIS** Version 2.2.1 uniform data elements between data systems. Please see [www.nemsis.org](http://www.nemsis.org) for more information. *(Note: MATRIS Version 1.4 with the addition of two data elements: Crew Member ID (E04\_01) and Crew Member Level (E04\_03) supersedes Version 1.3 which superseded Version 1.2 with the addition of two data elements: Tube Confirmation (E19\_13) and Destination Confirmation of Tube Placement (E19\_14).)*

Information provided in this document includes the following:

- \* Name of the Data Element
- \* Definition of the Data Element
- \* Data Type of the Data Element
- \* How to deal with missing or incomplete information
- \* The Variables associated with each Data Element
- \* What Data Elements are associated with the Data Element
- \* Whether the Data Element is part of the medical record information (Trip Report) or is a quality management Data Element to be used internally by the EMS system and protected by Peer Review.
- \* What Reports are possible through the use of the Data Element
- \* Who is responsible for collecting the Data Element

- \* How the Data Element is related to other National Data Tools such as NHTSA Version 1, NFIRS, and Utstein

# MATRIS Version 1.5

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# ***Agency General Information***



# EMS AGENCY NUMBER

**D01\_01**

**Data Format** [text]

*National Element*

## Definition

The state-assigned provider number of the responding agency

**XSD Data Type** *xs:string*

**XSD Domain (Simple Type)** *EMSAgencyNumber*

**Multiple Entry Configuration** No

**Accepts Null** No

**Required in XSD** Yes

**Minimum Constraint** 3

**Maximum Constraint** 15

## Field Values

A unique value; no variable list is possible.

## Additional Information

- All EMS Agency demographic information is associated with the EMS agency number
- Not Nullable. A unique value must be provided to create a unique record ID within a database
- The same as EMS Agency Number (E02\_01). This could be used to auto fill E02\_01 on the Patient Care Report
- This data element is unique and is typically sequential

## Uses

- Agency number (E02\_01), agency state (D01\_03), unit call sign (E02\_12), patient number (E01\_01) and date (E05\_04) combine to create a unique identifier

## Data Collector

- Typically generated by the State EMS Regulatory Office. Collected by the EMS agency or auto-generated by the EMS agency specific software.

## Other Associated Elements

**D01\_01** EMS Agency Number

## References in NHTSA Version 1

Desirable Element 23 Patient Care Record Number

## References to Other Databases

- NFIRS 5.0 EMS Module; Title: Patient Number

## Section D01 Agency General Information

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

Data Format [combo] multiple-choice

National Element

Definition

The state in which the Agency provides services

XSD Data Type	xs:string	XSD Domain (Simple Type)	AgencyState
Multiple Entry Configuration	Yes	Accepts Null	No
Required in XSD	Yes	Minimum Constraint	2
		Maximum Constraint	2

Field Values

- Appropriate 2 digit FIPS code

Additional Information

- 2 digit FIPS numeric code (Not State abbreviation)
- Not Nullable. A unique value must be provided to create a unique record ID within a database

Uses

- Agency number (E02\_01), agency state (D01\_03),unit call sign (E02\_12), patient number (E01\_01) and date (E05\_04) combine to create a unique identifier

Data Collector

- EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements

D01\_01 EMS Agency Number

References to Other Databases

- NFIRS 5.0 EMS Module, Title: State

Data Format [combo] multiple-choice

National Element

Definition

The county(s) for which the agency formally provides service

XSD Data Type	xs:string	XSD Domain (Simple Type)	AgencyCounty
Multiple Entry Configuration	Yes	Accepts Null	No
Required in XSD	Yes	Minimum Constraint	5
		Maximum Constraint	5

Field Values

- Appropriate 5 digit FIPS code

Additional Information

- Stored as a 5 digit FIPS code (combining the state and county code) to take into account agencies may serve more than one state and counties are often named the same from state to state

Uses

- Used to group data with a state

Data Collector

- EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements

D01\_01 EMS Agency Number



## LEVEL OF SERVICE

D01\_07

**Data Format** [combo] single-choice

*National Element*

### Definition

The highest credentialed personnel's level of service which the agency provides for every EMS encounter if requested. In a tiered response system, this is the highest level of service which could be sent to any specific call.

**XSD Data Type** *xs:string/integer*

**XSD Domain (Simple Type)** *DemographicStateCertificationLicensureLevels*

**Multiple Entry Configuration** No

**Accepts Null** No

**Required in XSD** Yes

**Minimum Constraint** 2

**Maximum Constraint** 30

### Field Values

**6090** Basic

**6100** Intermediate

**6110** Paramedic

**6111** Critical Care

### Additional Information

- This list can be edited by each state to account for additional certification/licensure level by adding levels as listed in State Certification/Licensure Levels (D04\_01). State Certification/Licensure levels (D04\_01) should create the list for this item
- This value is stored either as the appropriate code or in text if an additional certification/licensure level has been entered by a state

### Uses

- Allows data to be sorted based on an agency's level of service
- Provides description of EMS Personnel
- Provides descriptive information when combined with an EMS Agency's Billing Status

### Data Collector

- EMS Agency and typically only documented once then verified and updated yearly or when changed

### Other Associated Elements

**D01\_01** EMS Agency Number

### References in NHTSA Version 1

Essential Element 29 Crew Member One Type

Essential Element 30 Crew Member Two Type

Desirable Element 31 Crew Member Three Type

### References to Other Databases

- **NFIRS 5.0** EMS Module, Title: Highest Level of Provider on Scene by Fire Department, Pick-List: First Responder = 1, EMT-B (Basic) = 2, EMT-I (Intermediate) = 3, EMT-P (Paramedic) = 4, Other Health Care Provider, Include Doctors, Nurses = O, No Care Provided = N
- **NFIRS 5.0** EMS Module, Title: Initial Level of FD Provider, Pick-List: First Responder = 1, EMT-B (Basic) = 2, EMT-I (Intermediate) = 3, EMT-P (Paramedic) = 4, Other Health Care Provider, Includes Doctors, Nurses, etc. = O, No Training = N

## Section D01 Agency General Information

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

ORGANIZATIONAL TYPE

D01\_08

Data Format [combo] single-choice

National Element

Definition

The organizational structure from which EMS services are delivered (fire, hospital, county, etc.)

XSD Data Type	xs:string	XSD Domain (Simple Type)	OrganizationalType
Multiple Entry Configuration	No	Accepts Null	No
Required in XSD	Yes		

Field Values

5810	Community, Non-Profit	5820	Fire Department
5830	Governmental, Non-Fire	5840	Hospital
5850	Private, Non_Hospital		

NEMSIS Values Not Approved for Use by OEMS

5860	Tribal
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Uses

- Allows data to be sorted based on an agency's organizational structure
- Provides description of EMS agencies across the nation

Data Collector

- EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements

D01_01	EMS Agency Number
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# ORGANIZATION STATUS

D01\_09

**Data Format** [combo] single-choice

*National Element*

## Definition

The primary organizational status of the agency. The definition of Volunteer or Non-Volunteer is based on state or local terms.

<b>XSD Data Type</b>	<i>xs:integer</i>	<b>XSD Domain (Simple Type)</b>	<i>OrganizationStatus</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	No
<b>Required in XSD</b>	Yes		

## Field Values

<b>5870</b>	Mixed	<b>5880</b>	Non-Volunteer
<b>5890</b>	Volunteer		

## Uses

- Allows data to be sorted based on an agency's organizational status
- Provides description of EMS agencies across the nation

## Data Collector

- EMS Agency and typically only documented once then verified and updated yearly or when changed

## Other Associated Elements

**D01\_01** EMS Agency Number

Data Format [date/time]

National Element

Definition

The year to which the information pertains

XSD Data Type *xs:gYear* XSD Domain (Simple Type) *StatisticalYear*  
Multiple Entry Configuration Yes, via structure Accepts Null No  
Required in XSD Yes Minimum Constraint 1,990 Maximum Constraint 2,030  
XSD Structure: D01\_10, D01\_12, D01\_13, D01\_14, D01\_15, D01\_16, D01\_17, and D01\_18 are all members of D1\_10\_0 Statistical Year Structure

Field Values

A unique value; no variable list is possible.

Additional Information

- Format [YYYY]
- Multiple entry configuration to allow statistical data to be entered yearly
- Used to identify the year to which the data pertains

Uses

- Associates a year with statistical data to improve reporting capabilities

Data Collector

- EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements

D01_01	EMS Agency Number	D01_12	Total Service Size Area
D01_13	Total Service Area Population	D01_14	911 Call Volume per Year
D01_15	EMS Dispatch Volume per Year	D01_16	EMS Transport Volume per Year
D01_17	EMS Patient Contact Volume per Year	D01_18	EMS Billable Calls per Year
E02_01	EMS Agency Number		

# TOTAL SERVICE SIZE AREA

D01\_12

Data Format [number]

National Element

## Definition

The total square miles in the agency's service area

**XSD Data Type** *xs:positiveInteger*      **XSD Domain (Simple Type)** *TotalServiceSizeArea*  
**Multiple Entry Configuration**      Yes, via structure      **Accepts Null**      Yes, but null value is blank or empty  
**Required in XSD** **Yes**      **Minimum Constraint** **1**      **Maximum Constraint** **100,000,000**

XSD Structure: D01\_10, D01\_12, D01\_13, D01\_14, D01\_15, D01\_16, D01\_17, and D01\_18 are all members of D1\_10\_0 Statistical Year Structure

## Field Values

A unique value; no variable list is possible.

## Additional Information

- Multiple entry configuration to allow statistical data to be entered yearly

## Uses

- Allows data to be sorted based on an agency's service area size
- Provides description of EMS agencies across the nation

## Data Collector

- EMS Agency and typically only documented once then verified and updated yearly or when changed

## Other Associated Elements

<b>D01_01</b>	EMS Agency Number	<b>D01_10</b>	Statistical Year
<b>D01_13</b>	Total Service Area Population	<b>D01_14</b>	911 Call Volume per Year
<b>D01_15</b>	EMS Dispatch Volume per Year	<b>D01_16</b>	EMS Transport Volume per Year
<b>D01_17</b>	EMS Patient Contact Volume per Year	<b>D01_18</b>	EMS Billable Calls per Year

## Section D01 Agency General Information

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

TOTAL SERVICE AREA POPULATION

D01\_13

Data Format [number]

National Element

Definition

The total population in the agency's service area based on year 2000 census data (if possible). This number does not include population changes associated with daily work flow or seasonal movements

XSD Data Type *xs:positiveInteger* XSD Domain (Simple Type) *TotalServiceAreaPopulation*  
Multiple Entry Configuration Yes, via structure Accepts Null Yes, but null value is blank or empty  
Required in XSD Yes Minimum Constraint 1 Maximum Constraint 100,000,000  
XSD Structure: D01\_10, D01\_12, D01\_13, D01\_14, D01\_15, D01\_16, D01\_17, and D01\_18 are all members of D1\_10\_0 Statistical Year Structure

Field Values

A unique value; no variable list is possible.

Additional Information

- Baseline data should be taken from the 2000 Census data if possible
- Multiple entry configuration to allow statistical data to be entered yearly

Uses

- Allows data to be sorted based on an agency's service area population
- Provides description of EMS agencies across the nation

Data Collector

- EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements

D01_01	EMS Agency Number	D01_10	Statistical Year
D01_12	Total Service Size Area	D01_14	911 Call Volume per Year
D01_15	EMS Dispatch Volume per Year	D01_16	EMS Transport Volume per Year
D01_17	EMS Patient Contact Volume per Year	D01_18	EMS Billable Calls per Year

# 911 CALL VOLUME PER YEAR

D01\_14

Data Format [number]

National Element

## Definition

The number of 911 EMS calls for the calendar year

**XSD Data Type** *xs:positiveInteger*      **XSD Domain (Simple Type)** *CallVolumeYear911*  
**Multiple Entry Configuration**      Yes, via structure      **Accepts Null**      Yes, but null value is blank or empty  
**Required in XSD** **Yes**      **Minimum Constraint** **1**      **Maximum Constraint** **100,000,000**  
XSD Structure: D01\_10, D01\_12, D01\_13, D01\_14, D01\_15, D01\_16, D01\_17, and D01\_18 are all members of D1\_10\_0 Statistical Year Structure

## Field Values

A unique value; no variable list is possible.

## Additional Information

- Multiple entry configuration to allow statistical data to be entered yearly

## Uses

- Allows data to be sorted based on an agency's 911 call volume per year
- Provides description of EMS agencies across the nation

## Data Collector

- EMS Agency and typically only documented once then verified and updated yearly or when changed

## Other Associated Elements

<b>D01_01</b>	EMS Agency Number	<b>D01_10</b>	Statistical Year
<b>D01_12</b>	Total Service Size Area	<b>D01_13</b>	Total Service Area Population
<b>D01_15</b>	EMS Dispatch Volume per Year	<b>D01_16</b>	EMS Transport Volume per Year
<b>D01_17</b>	EMS Patient Contact Volume per Year	<b>D01_18</b>	EMS Billable Calls per Year

## Section D01 Agency General Information

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# EMS DISPATCH VOLUME PER YEAR

D01\_15

Data Format [number]

National Element

## Definition

The number of EMS dispatches for the calendar year

**XSD Data Type** *xs:positiveInteger*      **XSD Domain (Simple Type)** *EMSDispatchVolumeYear*  
**Multiple Entry Configuration**      Yes, via structure      **Accepts Null**      Yes, but null value is blank or empty  
**Required in XSD** **Yes**      **Minimum Constraint** **1**      **Maximum Constraint** **100,000,000**  
XSD Structure: D01\_10, D01\_12, D01\_13, D01\_14, D01\_15, D01\_16, D01\_17, and D01\_18 are all members of D1\_10\_0 Statistical Year Structure

## Field Values

A unique value; no variable list is possible.

## Additional Information

- Multiple entry configuration to allow statistical data to be entered yearly

## Uses

- Allows data to be sorted based on an agency's Dispatch volume per year
- Provides description of EMS agencies across the nation

## Data Collector

- EMS Agency and typically only documented once then verified and updated yearly or when changed

## Other Associated Elements

<b>D01_01</b>	EMS Agency Number	<b>D01_10</b>	Statistical Year
<b>D01_12</b>	Total Service Size Area	<b>D01_13</b>	Total Service Area Population
<b>D01_14</b>	911 Call Volume per Year	<b>D01_16</b>	EMS Transport Volume per Year
<b>D01_17</b>	EMS Patient Contact Volume per Year	<b>D01_18</b>	EMS Billable Calls per Year

## Section D01 Agency General Information

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)



# EMS TRANSPORT VOLUME PER YEAR

D01\_16

Data Format [number]

National Element

## Definition

The number of EMS transports for the calendar year

**XSD Data Type** *xs:positiveInteger*      **XSD Domain (Simple Type)** *EMSTransportVolumeYear*  
**Multiple Entry Configuration**      Yes, via structure      **Accepts Null**      Yes, but null value is blank or empty  
**Required in XSD** **Yes**      **Minimum Constraint** **1**      **Maximum Constraint** **100,000,000**

XSD Structure: D01\_10, D01\_12, D01\_13, D01\_14, D01\_15, D01\_16, D01\_17, and D01\_18 are all members of D1\_10\_0 Statistical Year Structure

## Field Values

A unique value; no variable list is possible.

## Additional Information

- Multiple entry configuration to allow statistical data to be entered yearly

## Uses

- Allows data to be sorted based on an agency's Transport volume per year
- Provides description of EMS agencies across the nation

## Data Collector

- EMS Agency and typically only documented once then verified and updated yearly or when changed

## Other Associated Elements

<b>D01_01</b>	EMS Agency Number	<b>D01_10</b>	Statistical Year
<b>D01_12</b>	Total Service Size Area	<b>D01_13</b>	Total Service Area Population
<b>D01_14</b>	911 Call Volume per Year	<b>D01_15</b>	EMS Dispatch Volume per Year
<b>D01_17</b>	EMS Patient Contact Volume per Year	<b>D01_18</b>	EMS Billable Calls per Year

## Section D01 Agency General Information

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# EMS PATIENT CONTACT VOLUME PER YEAR

D01\_17

Data Format [number]

National Element

## Definition

The number of EMS patient contacts for that calendar year

**XSD Data Type** *xs:positiveInteger*      **XSD Domain (Simple Type)** *EMSPatientContactVolumeYear*  
**Multiple Entry Configuration**      Yes, via structure      **Accepts Null**      Yes, but null value is blank or empty  
**Required in XSD** **Yes**      **Minimum Constraint** **1**      **Maximum Constraint** **100,000,000**  
XSD Structure: D01\_10, D01\_12, D01\_13, D01\_14, D01\_15, D01\_16, D01\_17, and D01\_18 are all members of D1\_10\_0 Statistical Year Structure

## Field Values

A unique value; no variable list is possible.

## Additional Information

- Multiple entry configuration to allow statistical data to be entered yearly

## Uses

- Allows data to be sorted based on an agency's Patient Contact volume per year
- Provides description of EMS agencies across the nation

## Data Collector

- EMS Agency and typically only documented once then verified and updated yearly or when changed

## Other Associated Elements

<b>D01_01</b>	EMS Agency Number	<b>D01_10</b>	Statistical Year
<b>D01_12</b>	Total Service Size Area	<b>D01_13</b>	Total Service Area Population
<b>D01_14</b>	911 Call Volume per Year	<b>D01_15</b>	EMS Dispatch Volume per Year
<b>D01_16</b>	EMS Transport Volume per Year	<b>D01_18</b>	EMS Billable Calls per Year

## Section D01 Agency General Information

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

Data Format [text]

National Element

Definition

The time zone for the EMS Agency

XSD Data Type	xs:integer	XSD Domain (Simple Type)	EMSAgencyTimeZone
Multiple Entry Configuration	No	Accepts Null	No
Required in XSD	Yes		

Field Values

5900	GMT-11:00 Midway Island, Samoa	5910	GMT-10:00 Hawaii
5920	GMT-09:00 Alaska	5930	GMT-08:00 Pacific Time
5940	GMT-07:00 Mountain Time	5950	GMT-06:00 Central Time
5960	GMT-05:00 Eastern Time	5970	GMT-04:00 Atlantic Time

Uses

- Allows data to be tracked in comparison to other systems and times to better correlate in any analysis

Data Collector

- EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements

D01\_01 EMS Agency Number

# NATIONAL PROVIDER IDENTIFIER

D01\_21

Data Format [text]

National Element

## Definition

The National Provider Identifier associated with National Provider System (NPS) and used in all standard HIPAA transactions such as electronic claim filing.

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>NationalProviderIdentifier</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	Yes	<b>Minimum Constraint</b>	3
		<b>Maximum Constraint</b>	10

## Field Values

- 25 Not Applicable
- 15 Not Reporting
- 20 Not Recorded

## Additional Information

- The National Provider Identifier is associated with the EMS agency number

## Uses

- Important for HIPAA related transactions such as electronic claims processing

## Data Collector

- Generated by the National Provider System within the United States Department of Health and Human Services.  
Collected by the EMS agency or auto-generated by the EMS agency specific software.

## Other Associated Elements

D01\_01 EMS Agency Number

# ***Agency Configuration Information***

# PROCEDURES

**D04\_04**

**Data Format** [combo] multiple-choice

## Definition

A list of all procedures that the agency has implemented and available for use.

**XSD Data Type** *xs:decimal* **XSD Domain (Simple Type)** *DemographicProcedure*  
**Multiple Entry Configuration** Yes, via structure **Accepts Null** No  
**Required in XSD** No **Minimum Constraint** 0 **Maximum Constraint** 1,000  
XSD Structure: D04\_04 and D04\_05 are members of D04\_04\_0 Demographic Procedure Structure

## Field Values

### Active Coding Options in MATRIS including ICD-9 Code

12 Lead ECG-Obtain	89.820	CPR-Mechanical Thumper Type Device	99.603
12 Lead ECG-Transmitted	89.821	CPR-Start Compressions and Ventilations	99.600
Activation-Fire Rehabilitation Specialty Service/Response Team	101.202	CPR-Stop	99.615
Airway-Bagged (via BVMask)	93.931	Decontamination	86.280
Airway-BiPAP	96.702	Defibrillation-Automated (AED)	99.621
Airway-Change Tracheostomy Tube	97.230	Defibrillation-Manual	99.622
Airway-Cleared, Opened, or Heimlich	98.130	Defibrillation-Placement for Monitoring /Analysis	99.625
Airway-Combitube Blind Insertion Airway Device	96.051	Gastic Tube Insertion-Inserted Nasally	96.070
Airway-CPAP	93.900	Injections-SQ/IM	99.290
Airway-Direct Laryngoscopy	31.420	Orthostatic Blood Pressure Measurement	89.590
Airway-Extubation	96.993	Pain Measurement	89.702
Airway-Foreign Body Removal	98.131	Patient Cooling (Cold Pack, etc.)	99.810
Airway-Impedance Threshold Device	96.703	Patient Cooling-Post Resuscitation	99.811
Airway-Intubation Confirm Colometric ETCO2	96.991	Patient Monitoring of Pre-existing Devices, Equipment, or Ongoing Medications	89.599
Airway-Intubation Confirm Esophageal Bulb	96.992	Patient Warming (Hot Pack, etc.)	93.350
Airway-Intubation of Existing Tracheostomy Stoma	97.231	Pulse Oximetry	89.392
Airway-King LT Blind Insertion Airway Device	96.053	Restraints-Physical	99.842
Airway-Laryngeal Mask Blind Insertion Airway Device	96.052	Specialty Center Activation-Adult Trauma	101.101
Airway-Nasal	96.010	Specialty Center Activation-Pediatric Trauma	101.102
Airway-Nasotracheal Intubation	96.041	Specialty Center Activation-STEMI	101.104
Airway-Nebulizer Treatment	93.940	Specialty Center Activation-Stroke	101.105
Airway-Needle Cricothyrotomy	31.110	Spinal Immobilization	93.591
Airway-Oral	96.020	Splinting-Basic	93.540
Airway-Orotracheal Intubation	96.040	Splinting-Traction	93.450
Airway-Rapid Sequence Induction	96.042	Temperature Measurement	89.703
Airway-Suctioning	98.150	Thrombolytic Screen	89.704
Airway-Ventilator Operation	96.700	Vagal Maneuver-Carotid Massage	99.640
Airway-Ventilator with PEEP	96.701	Vagal Maneuver-Valsalva or other Vagal Maneuver(Not Carotid Massage)	99.641
Assessment-Adult	89.700	Venous Access-Blood Draw	38.990
Assessment-Pediatric	89.701	Venous Access-Central Line Maintenance	89.620
Blood Glucose Analysis	38.995	Venous Access-Discontinue	39.997
Capnography (CO2 Measurement)	89.391	Venous Access-Existing Catheter	38.991
Cardiac Monitor	89.510	Venous Access-External Jugular Line	38.993
Cardiac Pacing-External	99.624	Venous Access-Extremity	38.992
Cardioversion	99.623	Venous Access-Intraosseous Adult	41.920
Chest Decompression	34.041	Venous Access-Intraosseous Pediatric	41.921
Childbirth	73.590	Venous Access-Swan Ganz Maintain	89.640
Contact Medical Control	101.500	Venous Access-Umbilical Vein Cannulation	39.998
CPR by Other External Automated Device	99.601	Wound Care-General	93.057
CPR-AutoPulse Device	99.602	Wound Care-Tourniquet	93.056

## Additional Information

- A multiple-entry configuration with Personnel Level Permitted to use the Procedure (D04\_05)
- If local systems have procedures which are not listed in the current values, additional procedures may be added using CPT codes from the ICD-9 standard. The CPT code should be stored and passed via the XML. This will allow expansion of the list to formally add new procedures over time
- Used to create a list box for Procedure (E19\_03)

## Uses

- Allows data to be sorted based on an agency's Procedure capabilities
- Provides descriptive information when combined with an EMS Agency's Billing Status
- Used to create a list box for Response to Procedure (E19\_08)

## Data Collector

- EMS Agency and typically only documented once then verified and updated yearly or when changed

## Other Associated Elements

**D01\_01** EMS Agency Number

**D04\_05** Personnel Level Permitted to Use the Procedure

## References in NHTSA Version 1

Desirable Element 58 Time of First CPR

Desirable Element 63 Time of First Defibrillatory Shock

Essential Element 78 Procedure or Treatment Name

## References to Other Databases

- NFIRS 5.0 EMS Module, Title: Procedures Used, Multi Select List: Airway Insertion = 01, Anti-Shock Trousers = 02, Assisted Ventilation = 03, Bleeding Control = 04, Burn Care = 05, Cardiac Pacing = 06, Cardioversion (defib), Manual = 07, Chest/Abdominal Thrust = 08, CPR = 09, Cricothyroidotomy = 10, Defibrillation by AED = 11, EKG Monitoring = 12, Extrication = 13, Intubation (EGTA) = 14, Intubation (ET) = 15, IO/IV Therapy = 16, Medications Therapy = 17, Oxygen Therapy = 18, Obstetrical Care/Delivery = 19, Pre-Arrival Instruction = 20, Restrained Patient = 21, Spinal Immobilization = 22, Splinted Extremities = 23, Suction/Aspirate = 24, Other Procedure = 00, No Treatment = NN

## Section D04 Agency Configuration Information

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# MEDICATIONS GIVEN

D04\_06

**Data Format** [text] multiple-entry

## Definition

A list of all medications the agency has implemented and available for use

**XSD Data Type** *xs:string* **XSD Domain (Simple Type)** *DemographicMedicationsGiven*  
**Multiple Entry Configuration** Yes, via structure **Accepts Null** No  
**Required in XSD** No **Minimum Constraint** 2 **Maximum Constraint** 30  
XSD Structure: D04\_06 and D04\_07 are members of D04\_06\_0 Demographic Medication Structure

## Field Values

### Active Coding Options in MATRIS including MATRIS Code

Activated Charcoal	111	IFT - Intravenous steroids	156108
Adenosine	61	IFT - Mannitol (Osmitrol)	182
Albuterol Sulfate	31	IFT - Norepinephrine	156018
Amiodorone (Cordarone)	65	IFT - Octreotide	156160
Amyl Nitrate	4	IFT - Other medications as approved by the OEMS director	156128
Aspirin (ASA)	81	IFT - Paralytics	156161
Atropine Sulfate	21	IFT - Parenteral nutrition (PPN or TPN) (via central or peripheral IV lines)	156113
Atrovent (Ipratropium Bromide)	60	IFT - Thrombolytic agents	156162
Calcium Chloride	161	IFT - Vasopressin	401
Cetacaine Spray	156022	Lidocaine	63
D5W (Dextrose 5% in Water)	156010	Lorazepam (Ativan)	24
Dextrose 10% (D10)	156003	Magnesium Sulfate	131
Dextrose 25% (D25)	156002	Methylprednisolone (Solu-Medrol)	222
Dextrose 50% (D50)	171	Metoprolol (Lopressor)	350
Diazepam (Valium)	121	Midazolam (Versed)	122
Diltiazem (Cardizem)	436	Morphine Sulfate	92
Diphenhydramine (Benadryl)	11	Naloxone (Narcan)	101
Dopamine	16	Nerve Agent Antidote Kit (Mark 1) (Atropine and Pralidoxime)	416
DuoNeb (0.5 Atrovent/3.0 Albuterol)	156013	Nitroglycerin	72
Epi-Pen Adult	418	Nitropaste 2%(1 inch=15mg nitro)	156029
Epi-Pen Junior	419	Normal Saline	404
Epinephrine 1:10,000	441	Not Applicable	-25
Epinephrine 1:1000	440	Not Recorded	-20
Fentanyl	325	Not Reporting	-15
Furosemide (Lasix)	132	Ondansetron (Zofran)	425
Glucagon	231	Oxygen	910
Glucose (Oral)	156023	Oxygen (non-rebreather mask)	9398
Hurricane Spray	437	Oxygen by Blow By	12360
Hydrocortisone	156159	Oxygen by Mask	9397
Hydroxocobalamin (2.5g/vial)	156122	Oxygen by Nasal Cannula	9396
IFT - Aminophylline	156158	Oxygen by Nebulizer	438
IFT - Anti-sepsis support medications	156105	Oxygen by Positive Pressure Device	439
IFT - Antibiotics	417	Oxytocin (Pitocin)	411
IFT - Anticonvulsants	156101	Phenylephrine HCl (Neo-Synephrine)	433
IFT - Antidysrhythmics, cardiac, and pressor agents	156103	Sodium bicarbonate	151
IFT - Benzodiazepines, narcotics, anesthetics, or sedatives	156112	Sodium Nitrate (Cyanide Kit)	156020
IFT - Blood Products	156063	Sodium Thiosulfate (Cyanide Kit)	156021
IFT - Digoxin	156004	Tetracaine	156007



IFT - Electrolyte infusions	156110	Thiamine	39
IFT - Glycoprotein IIb / IIIa inhibitors	156115	Waiver - Etomidate	141
IFT - Heparin	51	Waiver - Succinylcholine (Anectine)	41
IFT - Insulin infusions	412	Waiver - Vecuronium (Norcuron)	400

### Additional Information

- At this time a national drug index or coding scheme, which would allow for a single code to be assigned to a single drug, does not exist
- The Drug List may contain any generic or trade name of a drug approved by the FDA and administered by EMS. The medication is stored and passed via XML in a text format
- Used to create a list box for Medication Given (E18\_03) and Prior Aid (E09\_01)

### Uses

- Allows data to be sorted based on an agency's Medication capabilities
- Could be used to create a list box for Medication Given (E18\_03) and Prior Aid (E09\_01)
- Provides descriptive information when combined with an EMS Agency's Billing Status

### Data Collector

- EMS Agency and typically only documented once then verified and updated yearly or when changed

### Other Associated Elements

**D01\_01** EMS Agency Number

**D04\_07** Personnel Level Permitted to Use the Medication

### References in NHTSA Version 1

Essential Element 80 Medication Name

### References to Other Databases

- NFIRS 5.0 EMS Module, Title: Procedures Used, Multi Select List: Airway Insertion = 01, Anti-Shock Trousers = 02, Assisted Ventilation = 03, Bleeding Control = 04, Burn Care = 05, Cardiac Pacing = 06, Cardioversion (defib), Manual = 07, Chest/Abdominal Thrust = 08, CPR = 09, Cricothyroidotomy = 10, Defibrillation by AED = 11, EKG Monitoring = 12, Extrication = 13, Intubation (EGTA) = 14, Intubation (ET) = 15, IO/IV Therapy = 16, Medications Therapy = 17, Oxygen Therapy = 18, Obstetrical Care/Delivery = 19, Pre-Arrival Instruction = 20, Restrained Patient = 21, Spinal Immobilization = 22, Splinted Extremities = 23, Suction/Aspirate = 24, Other Procedure = 00, No Treatment = NN

## Section D04 Agency Configuration Information

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# DESTINATION FACILITY NUMBER

D04\_14

Data Format [text]

## Definition

The state assigned licensure number (code) for each Other Destination (D04\_13)

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>FacilityNumber</i>
<b>Multiple Entry Configuration</b>	Yes, via structure	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	2
		<b>Maximum Constraint</b>	30
XSD Structure: D04_13, D04_14 and D04_15 are members of D04_13_0 Other Destinations Structure			

## Field Values

A unique value; no variable list is possible.	-25 Not Applicable
-15 Not Reporting	-20 Not Recorded

## Additional Information

- Multiple entry configuration to create a list box for Incident Facility Code (E8\_08) and Destination Transferred to Code (E20\_02)
- This field could also provide linkage to Other Destinations (D04\_13) which would allow a list box of Other Destination Names to be used instead of entering the Code directly

## Uses

- Allows data to be sorted or grouped based on the EMS transports destination type
- Could be used to create a list box (along with D04\_12) for Incident Facility Code (E08\_08) and Destination Transferred to Code (E20\_02)

## Data Collector

- EMS Agency and typically only documented once then verified and updated yearly or when changed

## Other Associated Elements

<b>D01_01</b>	EMS Agency Number	<b>D04_13</b>	Other Destinations
<b>D04_15</b>	Destination Type	<b>E00</b>	Common Null Values

## Section D04 Agency Configuration Information

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# DESTINATION TYPE

D04\_15

**Data Format** [combo] single-choice

## Definition

The type of facility associated with the Other Destination (D04\_13)

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *FacilityType*

**Multiple Entry Configuration**

Yes, via structure

**Accepts Null**

No

**Required in XSD** No

XSD Structure: D04\_13, D04\_14 and D04\_15 are members of D04\_13\_0 Other Destinations Structure

## Field Values

**7270** Home

**7290** Medical Office/Clinic

**7330** Other

**7350** Other EMS Responder (ground)

**7280** Hospital

**7320** Nursing Home

**7340** Other EMS Responder (air)

**7360** Police/Jail

## NEMSIS Values Not Approved for Use by OEMS

:

**7300** Morgue

## Additional Information

- Can be used to auto-fill Type of Destination (E20\_17) based on Other Destination (D04\_13) or Destination Facility Number (D04\_14)

## Uses

- Allows data to be sorted based on an agency's Destination Type
- Allows data to be sorted or grouped based on the EMS transports destination type
- Provides a component of a list box associated with Other Destinations (D04\_13)
- Provides description of EMS Agency's Destination Types

## Data Collector

- EMS Agency and typically only documented once then verified and updated yearly or when changed

## Other Associated Elements

**D01\_01** EMS Agency Number

**D04\_13** Other Destinations

**D04\_14** Destination Facility Number

## References in NHTSA Version 1

Essential Element 44 Destination/Transferred To

## Section D04 Agency Configuration Information

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# ***Record Information***

***Section E01 Record Information***

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# PATIENT CARE REPORT NUMBER

E01\_01

Data Format [text]

National Element

## Definition

The unique number automatically assigned by the EMS agency for each patient care report (PCR). This is a unique number to the EMS agency for all of time.

XSD Data Type	xs:string	XSD Domain (Simple Type)	PatientCareReportNumber
Multiple Entry Configuration	No	Accepts Null	No
Required in XSD	Yes	Minimum Constraint	3
		Maximum Constraint	32

## Field Values

A unique value; no variable list is possible.

## Additional Information

- Not Nullable. A unique value must be provided to create a unique record ID within a database

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Agency number (E02\_01), agency state (D01\_03),unit call sign (E02\_12), patient number (E01\_01) and date (E05\_04) combine to create a unique identifier

## Data Collector

- EMS agency or may be electronically provided through the 911 or dispatch center

## Other Associated Elements

E01\_01 Patient Care Report Number

## References in NHTSA Version 1

Desirable Element 23 Patient Care Record Number

## References to Other Databases

- NFIRS 5.0 EMS Module; Title: Patient Number; Unique Number

## Section E01 Record Information

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

Data Format [text]

National Element

Definition

The name of the software vendor by whom the data collection software was developed

XSD Data Type

xs:string

XSD Domain (Simple Type)

SoftwareCreatedBy

Multiple Entry Configuration

No

Accepts Null

No

Required in XSD

Yes

Minimum Constraint

3

Maximum Constraint

30

Field Values

A unique value; no variable list is possible.

Uses

- Important for grouping or comparing the accuracy of software used by EMS agencies in data collection

Data Collector

- EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements

E01\_01 Patient Care Report Number

SOFTWARE NAME

E01\_03

Data Format [text] *National Element*

Definition

The name of the software package with which the data was collected by the agency

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>SoftwareName</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	No
<b>Required in XSD</b>	Yes	<b>Minimum Constraint</b>	3
		<b>Maximum Constraint</b>	30

Field Values

A unique value; no variable list is possible.

Uses

- Important for grouping or comparing the accuracy of software used by EMS agencies in data collection

Data Collector

- EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements

E01\_01 Patient Care Report Number

Data Format [text]

National Element

Definition

The version of the software used by the agency to collect the data

XSD Data Type

xs:string

XSD Domain (Simple Type)

SoftwareVersion

Multiple Entry Configuration

No

Accepts Null

No

Required in XSD

Yes

Minimum Constraint

3

Maximum Constraint

30

Field Values

A unique value; no variable list is possible.

Uses

- Important for grouping or comparing the accuracy of software used by EMS agencies in data collection

Data Collector

- EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements

E01\_01 Patient Care Report Number



# ***Unit/ Agency Information***

# EMS AGENCY NUMBER

E02\_01

Data Format [text]

National Element

## Definition

The state-assigned provider number of the responding agency

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>EMSAgencyNumber</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	No
<b>Required in XSD</b>	Yes	<b>Minimum Constraint</b>	3
		<b>Maximum Constraint</b>	15

## Field Values

A unique value; no variable list is possible.

## Additional Information

- Not Nullable. A unique value must be provided to create a unique record ID within a database
- Same as EMS Agency Number (D01\_01)

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Agency number (E02\_01), agency state (D01\_03),unit call sign (E02\_12), patient number (E01\_01) and date (E05\_04) combine to create a unique identifier
- Allows data to be sorted by the EMS Agency
- Important for grouping and comparing EMS Agencies in Benchmarking and Quality Management
- When linked to D01\_02 provides the Agency name on the EMS Medical Record: Patient Care Report

## Data Collector

- Typically generated by the State EMS Regulatory Office. Collected by the EMS agency or auto-generated by the EMS agency specific software.

## Other Associated Elements

E01\_01 Patient Care Report Number

## References to Other Databases

- NFIRS 5.0 EMS Module;Title: FDID; State assigned Fire Department ID number

INCIDENT NUMBER

E02\_02

Data [text]

Definition

The incident number assigned by the 911 Dispatch System.

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>IncidentNumber</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	2
		<b>Maximum Constraint</b>	15

Field Values

- 25

Not Applicable
- 20

Not Recorded
- 15

Not Reporting

Uses

- Component of the EMS Agency 911 or Dispatch information which serves as a link to identify and report other Dispatch Information

Data Collector

- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements

E00 Common Null Values E01\_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 21 Incident Number

References to Other Databases

- NFIRS 5.0 EMS Module; Title: Incident Number; Unique number for each Incident

Section E02 Unit/ Agency Information

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

TYPE OF SERVICE REQUESTED

E02\_04

Data Format [combo] single-choice

National Element

Definition

The type of service or category of service requested of the EMS service responding for this specific EMS incident.

XSD Data Type	xs:integer	XSD Domain (Simple Type)	TypeOfServiceRequested
Multiple Entry Configuration	No	Accepts Null	No
Required in XSD	Yes		

Field Values

30	911 Response (Scene)	35	Intercept
40	Interfacility Transfer	45	Medical Transport
50	Mutual Aid	55	Standby

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted by the Type of Service Requested
- Provides descriptive data on EMS call volume and service provided

Data Collector

- EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements

E01\_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 20 Service Type

# PRIMARY ROLE OF THE UNIT

E02\_05

**Data Format** [combo] single-choice

*National Element*

## Definition

The primary role of the EMS service which was requested for this specific EMS incident.

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *PrimaryRollOfTheUnit*

**Multiple Entry Configuration** No

**Accepts Null** No

**Required in XSD** Yes

## Field Values

**60** Non-Transport

**75**Transport

**70** Supervisor

## NEMSIS Values Not Approved for Use by OEMS

**65** Rescue

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted by the role of the responder
- Provides descriptive data on EMS call volume and service provided

## Data Collector

- EMS agency or may be electronically provided through the 911 or dispatch center

## Other Associated Elements

**E01\_01** Patient Care Report Number

TYPE OF DISPATCH DELAY

E02\_06

Data Format [combo] multiple-choice

National Element

Definition

The dispatch delays, if any, associated with the dispatch of the EMS unit to the patient encounter

XSD Data Type	xs:integer	XSD Domain (Simple Type)	TypeOfDispatchDelay
Multiple Entry Configuration	Yes	Accepts Null	Yes
Required in XSD	Yes		

Field Values

-25	Not Applicable	-15	Not Reporting
-20	Not Recorded	80	Caller (Uncooperative)
85	High Call Volume	90	Language Barrier
95	Location (Inability to Obtain)	100	No Units Available
105	None	110	Other
115	Scene Safety (Not Secure for EMS)	120	Technical Failure (Computer, Phone, etc.)

Uses

- Allows data to describe the status of Dispatch issues

Data Collector

- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
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References in NHTSA Version 1

Desirable Element 56 Factors Affecting EMS Delivery of Care

Section E02 Unit/ Agency Information

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

TYPE OF RESPONSE DELAY

E02\_07

Data Format [combo] multiple-choice

National Element

Definition

The response delays, if any, of the unit associated with the patient encounter

XSD Data Type	xs:integer	XSD Domain (Simple Type)	TypeOfResponseDelay
Multiple Entry Configuration	Yes	Accepts Null	Yes
Required in XSD	Yes		

Field Values

-25	Not Applicable	-15	Not Reporting
-20	Not Recorded	125	Crowd
130	Directions	135	Distance
145	HazMat	150	None
155	Other	160	Safety
165	Staff Delay	170	Traffic
175	Vehicle Crash	180	Vehicle Failure
185	Weather		

NEMSIS Values Not Approved for Use by OEMS

140 Diversion

Uses

- Allows data describe Vehicle Failures and Vehicle Crashes
- Allows data to describe the status of Response issues

Data Collector

- EMS personnel

Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
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References in NHTSA Version 1

Desirable Element 56 Factors Affecting EMS Delivery of Care

Section E02 Unit/ Agency Information

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

TYPE OF SCENE DELAY

E02\_08

Data Format [combo] multiple-choice

National Element

Definition

The scene delays, if any, of the unit associated with the patient encounter

XSD Data Type	xs:integer	XSD Domain (Simple Type)	TypeOfSceneDelay
Multiple Entry Configuration	Yes	Accepts Null	Yes
Required in XSD	Yes		

Field Values

-25	Not Applicable	-15	Not Reporting
-20	Not Recorded	190	Crowd
195	Directions	200	Distance
210	Extrication >20 min.	215	HazMat
220	Language Barrier	225	None
230	Other	235	Safety
240	Staff Delay	245	Traffic
250	Vehicle Crash	255	Vehicle Failure
260	Weather		

NEMSIS Values Not Approved for Use by OEMS

205 Diversion

Uses

- Allows data describe Vehicle Failures and Vehicle Crashes
- Allows data to describe the status of Scene issues

Data Collector

- EMS personnel

Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
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References in NHTSA Version 1

Desirable Element 56 Factors Affecting EMS Delivery of Care

Section E02 Unit/ Agency Information

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)



TYPE OF TRANSPORT DELAY

E02\_09

Data Format [combo] multiple-choice

National Element

Definition

The transport delays, if any, of the unit associated with the patient encounter

XSD Data Type xs:integer XSD Domain (Simple Type) TypeOfTransportDelay  
Multiple Entry Configuration Yes Accepts Null Yes  
Required in XSD Yes

Field Values

- 25 Not Applicable

-20 Not Recorded

270 Directions

285 HazMat

295 Other

305 Staff Delay

315 Vehicle Crash

325 Weather
- 15 Not Reporting

265 Crowd

275 Distance

290 None

300 Safety

310 Traffic

320 Vehicle Failure

NEMSIS Values Not Approved for Use by OEMS

280 Diversion

Uses

- Allows data describe Vehicle Failures and Vehicle Crashes
- Allows data to describe the status of Transport issues

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values E01\_01 Patient Care Report Number

References in NHTSA Version 1

Desirable Element 56 Factors Affecting EMS Delivery of Care

Section E02 Unit/ Agency Information

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

TYPE OF TURN-AROUND DELAY

E02\_10

Data Format [combo] multiple-choice

National Element

Definition

The turn-around delays, if any, associated with the EMS unit associated with the patient encounter

XSD Data Type	xs:integer	XSD Domain (Simple Type)	TypeOfTurnAroundDelay
Multiple Entry Configuration	Yes	Accepts Null	Yes
Required in XSD	Yes		

Field Values

-25	Not Applicable	-15	Not Reporting
-20	Not Recorded	330	Clean-up
335	Decontamination	340	Documentation
345	ED Overcrowding	350	Equipment Failure
355	Equipment Replenishment	360	None
365	Other	370	Staff Delay
375	Vehicle Failure		

Uses

- Allows data describe ED overcrowding and Vehicle Failure
- Allows data to describe the status of call time issues

Data Collector

- EMS personnel

Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
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# EMS UNIT CALL SIGN (RADIO NUMBER)

E02\_12

**Data Format** [combo] single-choice

*National Element*

## Definition

The EMS unit number used to dispatch and communicate with the unit. This may be the same as the EMS Unit/Vehicle Number in many agencies.

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>EMSUnitCallSign</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	No
<b>Required in XSD</b>	Yes	<b>Minimum Constraint</b>	2
		<b>Maximum Constraint</b>	15

## Field Values

- Relevant Value for Data Element & Patient Care

## Additional Information

- List box created from Unit Call Sign (D04\_02)
- Not Nullable. A unique value must be provided to create a unique record ID within a database

## Uses

- Allows data at the vehicle level to better describe EMS vehicle usage and possibly maintenance
- Important for grouping or comparing data by Response Vehicle which also allows data to be sorted by location in many agencies

## Data Collector

- EMS agency or may be electronically provided through the 911 or dispatch center

## Other Associated Elements

E01\_01 Patient Care Report Number

# RESPONSE MODE TO SCENE

E02\_20

**Data Format** [combo] single-choice

*National Element*

## Definition

Indication whether or not lights and/or sirens were used on the vehicle on the way to the scene

<b>XSD Data Type</b>	<i>xs:integer</i>	<b>XSD Domain (Simple Type)</b>	<i>ResponseModeToScene</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	No
<b>Required in XSD</b>	Yes		

## Field Values

<b>380</b> Initial Lights and Sirens, Downgraded to No Lights or Sirens	<b>385</b> Initial No Lights or Sirens, Upgraded to Lights and Sirens
<b>390</b> Lights and Sirens	<b>395</b> No Lights or Sirens

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted by the Response Mode
- Allows data to describe the use of emergent response

## Data Collector

- EMS agency or may be electronically provided through the 911 or dispatch center

## Other Associated Elements

**E01\_01** Patient Care Report Number

## References in NHTSA Version 1

Essential Element 19 Lights and Sirens to Scene

# ***Unit/ Call Information***

***Section E03 Unit/ Call Information***

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# COMPLAINT REPORTED BY DISPATCH

E03\_01

**Data Format** [combo] single-choice

*National Element*

## Definition

The complaint dispatch reported to the responding unit.

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *ComplaintReportedByDispatch*

**Multiple Entry Configuration** No

**Accepts Null** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-20 Not Recorded

400 Abdominal Pain

410 Animal Bite

420 Back Pain (Non-Traumatic)

430 Burns

440 Cardiac Arrest

450 Choking

460 Diabetic Problem

470 Electrocutation

480 Fall Victim

490 Heart Problems

500 Hemorrhage/Laceration

510 Ingestion/Poisoning

520 Psychiatric Problem

530 Stab/Gunshot Wound

540 Traffic/Transportation Accident

550 Unconscious/Fainting

560 Transfer/Interfacility/Palliative Care

-15 Not Reporting

405 Allergies

415 Assault

425 Breathing Problem

435 CO Poisoning/Hazmat

445 Chest Pain

455 Convulsions/Seizure

465 Drowning

475 Eye Problem

485 Headache

495 Heat/Cold Exposure

505 Industrial Accident/Inaccessible Incident/Other Entrapments (non-vehicle)

515 Pregnancy/Childbirth

525 Sick Person

535 Stroke/CVA

545 Traumatic Injury

555 Unknown Problem/Man Down

565 MCI (Mass Casualty Incident)

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted by the Dispatch Complaint
- Allows data to describe Patient Complaint as reported by Dispatch

## Data Collector

- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

## Other Associated Elements

E00 Common Null Values

E01\_01 Patient Care Report Number

## References to Other Databases

NHTSA EMD Data Elements Chief Complaint Type

**Section E03**

**Unit/ Call Information**

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

EMD PERFORMED

E03\_02

Data Format [combo] single-choice

National Element

Definition

Indication of whether EMD was performed for this EMS event.

XSD Data Type	xs:integer	XSD Domain (Simple Type)	EMDPerformed
Multiple Entry Configuration	No	Accepts Null	Yes
Required in XSD	Yes		

Field Values

-25	Not Applicable	-15	Not Reporting
-20	Not Recorded	0	No
570	Yes, With Pre-Arrival Instructions	575	Yes, Without Pre-Arrival Instructions

Uses

- Allows data to be sorted by the Dispatch Complaint
- Allows data to describe Patient Complaint as reported by Dispatch

Data Collector

- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
-----	--------------------	--------	----------------------------

Section E03 Unit/ Call Information

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# ***Unit/Personnel Information***



# CREW MEMBER ID

E04\_01

Data [text]

## Definition

The State Certification/Licensure ID number assigned to the crew member

**XSD Data Type** *xs:string*      **XSD Domain (Simple Type)** *CrewMemberID*  
**Multiple Entry Configuration**    Yes, via structure      **Accepts Null Values**    Yes  
**Required in XSD**    No      **Minimum Constraint**    2      **Maximum Constraint**    15  
XSD Structure: E04\_01, E04\_02, E04\_03 are all members of the E04 Unit Personnel Information structure

## Field Values

-25 Not Applicable      -20 Not Recorded  
-15 Not Reporting

## Additional Information

- A multiple entry configuration to allow all crew members to be entered
- Linked to State/Licensure ID Number (D07\_02)
- List box created from the State/ Licensure ID Number (D07\_02) which could display the Personnel's Names as associated with D08\_01, D08\_02, and D08\_03 for easy data entry

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Associates an EMS event with specific EMS personnel
- Useful for reporting EMS personnel statistics related to EMS events and evaluation of EMS personnel performance

## Data Collector

- EMS personnel

## Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
E04_02	Crew Member Role	E04_03	Crew Member Level

## References in NHTSA Version 1

Essential	Element 26	Crew Member One Number
Essential	Element 27	Crew Member Two Number
Desirable	Element 28	Crew Member Three Number

CREW MEMBER ROLE

E04\_02

Data [combo] single-choice

Definition

- Driver is defined as the driver during the time of patient transport or during the response if there was not transport required.
- Primary Patient Care Giver is defined as the individual responsible for the patient care during the transport of the patient, or if no transport, the individual responsible for the assessment and treatment of the patient on scene.
- Secondary Patient Care Giver is defined as the individual assisting the Primary Patient Care Giver.
- Third Patient Care Giver is defined as the individual assisting in the Primary and Secondary Patient Care Givers.

**XSD Data Type** *xs:integer*      **XSD Domain (Simple Type)** *CrewMemberRole*  
**Multiple Entry Configuration**    Yes, via structure      **Accepts Null Values**    Yes  
**Required in XSD**    No      **Minimum Constraint**    2      **Maximum Constraint**    15  
XSD Structure: E04\_01, E04\_02, E04\_03 are all members of the E04 Unit Personnel Information structure

Field Values

- |     |                           |     |                             |
|-----|---------------------------|-----|-----------------------------|
| -25 | Not Applicable            | -20 | Not Recorded                |
| -15 | Not Reporting             | 580 | Driver/Pilot                |
| 585 | Primary Patient Caregiver | 590 | Secondary Patient Caregiver |
| 595 | Third Patient Caregiver   | 600 | Other                       |

Uses

- A component of the EMS Medical Record: Patient Care Report
- Associates an EMS event with specific EMS personnel
- Useful for reporting EMS personnel statistics related to EMS events and evaluation of EMS personnel performance

Data Collector

- EMS personnel

Other Associated Elements

- |        |                    |        |                            |
|--------|--------------------|--------|----------------------------|
| E00    | Common Null Values | E01_01 | Patient Care Report Number |
| E04_01 | Crew Member ID     | E04_03 | Crew Member Level          |

# CREW MEMBER LEVEL

E04\_03

**Data** [combo] single-choice

## Definition

The functioning level of the crew member during this EMS patient encounter.

**XSD Data Type** *xs:string/integer*      **XSD Domain (Simple Type)** *CrewMemberLevel*  
**Multiple Entry Configuration** Yes, via structure      **Accepts Null Values** Yes

**Required in XSD** No

XSD Structure: E04\_01, E04\_02, E04\_03 are all members of the E04 Unit Personnel Information structure

## Field Values

-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	635	Student
640	Other Healthcare Professional	6090	EMT-Basic
6100	EMT-Intermediate		
6110	EMT-Paramedic	6111	Nurse
6112	Physician	6120	First Responder

## NEMSIS Values Not Approved for Use by OEMS

645 Other Non-Healthcare Professional

## Additional Information

- Could be auto-filled using Crew Member ID (E04\_01) and connecting to State/ Licensure ID Number (D07\_02) to obtain Personnel's Highest Level of Certification/ Licensure for Agency (D07\_05)
- This list can be edited by each state to account for additional certification/ licensure levels as defined in (D04\_01) and Personnel's Highest Level of Certification/ Licensure for the Agency (D07\_05)

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Associates an EMS event with specific EMS personnel
- Useful for reporting EMS personnel statistics related to EMS events and evaluation of EMS personnel performance

## Data Collector

- EMS personnel

## Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
E04_01	Crew Member ID	E04_02	Crew Member Role

## References in NHTSA Version 1

Essential	Element 29	Crew Member One Type
Essential	Element 30	Crew Member Two Type
Desirable	Element 31	Crew Member Three Type

## References to Other Databases

- NFIRS 5.0 EMS Module, Title: Highest Level of Provider on Scene by Fire Department, Pick-List: First Responder = 1, EMT-B (Basic) = 2, EMT-I (Intermediate) = 3, EMT-P (Paramedic) = 4, Other Health Care Provider, Include Doctors, Nurses = O, No Care Provided = N
- NFIRS 5.0 EMS Module; Title: Initial Level of FD Provider; Pick-List: First Responder = 1, EMT-B (Basic) = 2, EMT-I (Intermediate) = 3, EMT-P (Paramedic) = 4, Other Health Care Provider, Includes Doctors, Nurses, etc. = O, No Training = N

**Section E05**

***Times***

**Section E05   Times**

INCIDENT OR ONSET DATE/TIME

E05\_01

Data Format [date/time]

National Element

Definition

The date/time the injury occurred, or the date/time the symptoms or problem started

XSD Data Type	xs:dateTime	XSD Domain (Simple Type)	DateTime
Multiple Entry Configuration	No	Accepts Null	Yes, but null value is blank or empty
Required in XSD	No	Minimum Constraint	1,990
		Maximum Constraint	2,030

Field Values

Additional Information

- If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used

Uses

- Important to identify when the clinical event started to better analyze EMS resource utilization and outcomes
- Provides descriptive information on the use of the EMS agency

Data Collector

- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements

E01\_01 Patient Care Report Number

References in NHTSA Version 1

Desirable Element 06 Onset Date  
Desirable Element 07 Onset Time

References to Other Databases

- NFIRS 5.0 Basic Module 1; Title: Incident Date; Date Field defined as YYYYMMDD or blank

# PSAP CALL DATE/TIME

E05\_02

**Data Format** [date/time]

*National Element*

## Definition

The date/time the phone rings (911 call to public safety answering point or other designated entity) requesting EMS services.

<b>XSD Data Type</b>	<i>xs:dateTime</i>	<b>XSD Domain (Simple Type)</b>	<i>DateTime</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes, but null value is blank or empty
<b>Required in XSD</b>	Yes	<b>Minimum Constraint</b>	1,990
		<b>Maximum Constraint</b>	2,030

## Field Values

- Relevant Value for Data Element & Patient Care

## Additional Information

- If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on Date and Time
- Allows data to describe EMS use by Date and Time, Day of the Week, etc

## Data Collector

- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

## Other Associated Elements

E01\_01 Patient Care Report Number

## References in NHTSA Version 1

Essential Element 08 Date Incident Reported

Essential Element 09 Time Incident Reported

## References to Other Databases

- NFIRS 5.0 EMS Module; Title: Incident Date; The date the Fire Department received the incident alarm

## Section E05 Times

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# UNIT NOTIFIED BY DISPATCH DATE/TIME

E05\_04

**Data Format** [date/time]

*National Element*

## Definition

The date the responding unit was notified by dispatch

<b>XSD Data Type</b>	<i>xs:dateTime</i>	<b>XSD Domain (Simple Type)</b>	<i>DateTime</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	No
<b>Required in XSD</b>	Yes	<b>Minimum Constraint</b>	1,990
		<b>Maximum Constraint</b>	2,030

## Field Values

- Relevant Value for Data Element & Patient Care

## Additional Information

- If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used
- Not Nullable. A unique value must be provided to create a unique record ID within a database

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on EMS agency time intervals
- Allows data to describe EMS agency time intervals

## Data Collector

- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

## Other Associated Elements

E01\_01 Patient Care Report Number

## References in NHTSA Version 1

Essential	Element 11	Date Unit Notified
Essential	Element 12	Time Unit Notified

## Section E05 Times

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# UNIT EN ROUTE DATE/TIME

E05\_05

**Data Format** [date/time]

*National Element*

## Definition

The date/time the unit responded; that is, the time the vehicle started moving

<b>XSD Data Type</b>	<i>xs:dateTime</i>	<b>XSD Domain (Simple Type)</b>	<i>DateTime</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes, but null value is blank or empty
<b>Required in XSD</b>	Yes	<b>Minimum Constraint</b>	1,990
		<b>Maximum Constraint</b>	2,030

## Field Values

- Relevant Value for Data Element & Patient Care

## Additional Information

- If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on EMS agency time intervals
- Allows data to describe EMS agency time intervals

## Data Collector

- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

## Other Associated Elements

E01\_01 Patient Care Report Number

## References in NHTSA Version 1

Essential Element 13 Time Unit Responding

## Section E05 Times

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)



# UNIT ARRIVED ON SCENE DATE/TIME

E05\_06

**Data Format** [date/time]

*National Element*

## Definition

The date/time the responding unit arrived on the scene; that is, the time the vehicle stopped moving

<b>XSD Data Type</b>	<i>xs:dateTime</i>	<b>XSD Domain (Simple Type)</b>	<i>DateTime</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes, but null value is blank or empty
<b>Required in XSD</b>	Yes	<b>Minimum Constraint</b>	1,990
		<b>Maximum Constraint</b>	2,030

## Field Values

- Relevant Value for Data Element & Patient Care

## Additional Information

- If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on EMS agency time intervals
- Allows data to describe EMS agency time intervals

## Data Collector

- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

## Other Associated Elements

E01\_01 Patient Care Report Number

## References in NHTSA Version 1

Essential Element 14 Time of Arrival at Scene

## Section E05 Times

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

ARRIVED AT PATIENT DATE/TIME

E05\_07

Data Format [date/time]

National Element

Definition

The date/time the responding unit arrived at the patient's side

XSD Data Type	xs:dateTime	XSD Domain (Simple Type)	DateTime
Multiple Entry Configuration	No	Accepts Null	Yes, but null value is blank or empty
Required in XSD	Yes	Minimum Constraint	1,990
		Maximum Constraint	2,030

Field Values

- Relevant Value for Data Element & Patient Care

Additional Information

- If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used

Uses

- Provides more accurate information on the true response time of EMS to the patient’s side
- Used in Quality Management evaluation of EMS response and performance especially in areas where patient location may be distant from the EMS vehicle

Data Collector

- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements

E01\_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 15 Time of Arrival at Patient

References to Other Databases

- NFIRS 5.0 EMS Module; Title: Date/Time Arrived; The date and time fire fighters arrived at the patient.

# TRANSFER OF PATIENT CARE DATE/TIME

E05\_08

**Data Format** [date/time]

## Definition

The date/time the patient was transferred from this EMS agency to another EMS agency for care.

<b>XSD Data Type</b>	<i>xs:dateTime</i>	<b>XSD Domain (Simple Type)</b>	<i>DateTime</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes, but null value is blank or empty
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	1,990
		<b>Maximum Constraint</b>	2,030

## Field Values

- Relevant Value for Data Element & Patient Care

## Additional Information

- If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used

## Uses

- Important for Quality Management when the patient is cared for by more than one EMS agency
- Provides documentation of how the patient progresses through the EMS agency

## Data Collector

- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

## Other Associated Elements

E01\_01 Patient Care Report Number

## References to Other Databases

- NFIRS 5.0 EMS Module; Title: Date/Time Transfer; The date and time fire fighters transferred the care of the patient to another EMS agency.

# UNIT LEFT SCENE DATE/TIME

E05\_09

**Data Format** [date/time]

*National Element*

## Definition

The date/time the responding unit left the scene (started moving)

<b>XSD Data Type</b>	<i>xs:dateTime</i>	<b>XSD Domain (Simple Type)</b>	<i>DateTime</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes, but null value is blank or empty
<b>Required in XSD</b>	Yes	<b>Minimum Constraint</b>	1,990
		<b>Maximum Constraint</b>	2,030

## Field Values

- Relevant Value for Data Element & Patient Care

## Additional Information

- If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on EMS agency time intervals
- Allows data to describe EMS agency time intervals

## Data Collector

- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

## Other Associated Elements

E01\_01 Patient Care Report Number

## References in NHTSA Version 1

Essential Element 16 Time Unit Left Scene

## Section E05 Times

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

PATIENT ARRIVED AT DESTINATION DATE/TIME

E05\_10

Data Format [date/time]

National Element

Definition

The date/time the responding unit arrived with the patient at the destination or transfer point

XSD Data Type	xs:dateTime	XSD Domain (Simple Type)	DateTime
Multiple Entry Configuration	No	Accepts Null	Yes, but null value is blank or empty
Required in XSD	Yes	Minimum Constraint	1,990
		Maximum Constraint	2,030

Field Values

- Relevant Value for Data Element & Patient Care

Additional Information

- If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on EMS agency time intervals
- Allows data to describe EMS agency time intervals

Data Collector

- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements

E01\_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 17 Time of Arrival at Destination

Section E05 Times

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# UNIT BACK IN SERVICE DATE/TIME

E05\_11

**Data Format** [date/time]

*National Element*

## Definition

The date/time the unit back was back in service and available for response (finished with call, but not necessarily back in home location)

**XSD Data Type** *xs:dateTime*

**XSD Domain (Simple Type)** *DateTime*

**Multiple Entry Configuration** No

**Accepts Null** No

**Required in XSD** Yes

**Minimum Constraint** 1,990 **Maximum Constraint** 2,030

## Field Values

- Relevant Value for Data Element & Patient Care

## Additional Information

- If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on EMS agency time intervals
- Allows data to describe EMS agency time intervals

## Data Collector

- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

## Other Associated Elements

E01\_01 Patient Care Report Number

## References in NHTSA Version 1

Essential Element 18 Time Back in Service

## Section E05 Times

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

UNIT BACK AT HOME LOCATION DATE/TIME

E05\_13

Data Format [date/time]

National Element

Definition

The date/time the responding unit was back in their service area. In agencies who utilized Agency Status Management, home location means the service area as assigned through the agency status management protocol.

XSD Data Type	xs:dateTime	XSD Domain (Simple Type)	DateTime
Multiple Entry Configuration	No	Accepts Null	Yes, but null value is blank or empty
Required in XSD	Yes	Minimum Constraint	1,990
		Maximum Constraint	2,030

Field Values

- Relevant Value for Data Element & Patient Care

Additional Information

- If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used

Uses

- Allows data to be sorted based on EMS agency time intervals
- Allows data to describe EMS agency time intervals

Data Collector

- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements

E01\_01 Patient Care Report Number

# ***Patient***



# PATIENT'S HOME ADDRESS

E06\_04

Data Format [text]

## Definition

The patient's home mailing or street address

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>StreetAddress</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	2
		<b>Maximum Constraint</b>	30

XSD Structure: E06\_04, E06\_05, E06\_06, E06\_07, E06\_08 are all members of the E06\_04\_0 Patient Address Structure

## Field Values

- 25 Not Applicable
- 15 Not Reporting
- 20 Not Recorded
  - Relevant Value for Data Element & Patient Care

## Uses

- Key component of an EMS Medical Record
- Provides contact information for multiple purposes including follow-up, billing, bioterrorism syndromic surveillance, etc

## Data Collector

- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

## Other Associated Elements

<b>E00</b>	Common Null Values	<b>E01_01</b>	Patient Care Report Number
<b>E06_01</b>	Last Name	<b>E06_05</b>	Patient's Home City
<b>E06_06</b>	Patient's Home County	<b>E06_07</b>	Patient's Home State
<b>E06_08</b>	Patient's Home Zip Code		

## References in NHTSA Version 1

Desirable Element 33 Patient Street Address

## Section E06 Patient

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# PATIENT'S HOME CITY

E06\_05

Data Format [combo] single-choice

## Definition

The patient's home city or township or residence

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>City</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	2
		<b>Maximum Constraint</b>	30

XSD Structure: E06\_04, E06\_05, E06\_07, E06\_08 are all members of the E06\_04\_0 Patient Address Structure

## Field Values

- 25 Not Applicable
- 15 Not Reporting
- 20 Not Recorded
  - Relevant Value for Data Element & Patient Care

## Additional Information

- 5 digit FIPS Code
- Could be filled in from Patient's Home Zip (E06\_08)

## Uses

- Key component of an EMS Medical Record
- Provides contact information for multiple purposes including follow-up, billing, bioterrorism syndromic surveillance, etc

## Data Collector

- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

## Other Associated Elements

<b>E00</b>	Common Null Values	<b>E01_01</b>	Patient Care Report Number
<b>E06_01</b>	Last Name	<b>E06_04</b>	Patient's Home Address
<b>E06_06</b>	Patient's Home County	<b>E06_07</b>	Patient's Home State
<b>E06_08</b>	Patient's Home Zip Code		

## References in NHTSA Version 1

Desirable Element 34 City of Residence

## Section E06 Patient

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# PATIENT'S HOME STATE

E06\_07

Data Format [combo] single-choice

## Definition

The patient's home state, territory, or province, or District of Columbia, where the patient resides

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>State</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	2
		<b>Maximum Constraint</b>	3
XSD Structure: E06_04, E06_05, E06_06, E06_07, E06_08 are all members of the E06_04_0 Patient Address Structure			

## Field Values

- 25 Not Applicable
- 15 Not Reporting
- 20 Not Recorded
  - Relevant Value for Data Element & Patient Care

## Additional Information

- 2 digit FIPS numeric code (Not State abbreviation)
- Could be filled in from Patient's Home Zip (E06\_08)

## Uses

- Key component of an EMS Medical Record
- Provides contact information for multiple purposes including follow-up, billing, bioterrorism syndromic surveillance, etc

## Data Collector

- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

## Other Associated Elements

<b>E00</b>	Common Null Values	<b>E01_01</b>	Patient Care Report Number
<b>E06_01</b>	Last Name	<b>E06_04</b>	Patient's Home Address
<b>E06_05</b>	Patient's Home City	<b>E06_06</b>	Patient's Home County
<b>E06_08</b>	Patient's Home Zip Code		

## References in NHTSA Version 1

Desirable Element 36 State of Residence

## Section E06 Patient

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# PATIENT'S HOME ZIP CODE

E06\_08

Data Format [text]

National Element

## Definition

The patient's home ZIP code of residence

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>Zip</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	Yes	<b>Minimum Constraint</b>	2
		<b>Maximum Constraint</b>	10

XSD Structure: E06\_04, E06\_05, E06\_07, E06\_08 are all members of the E06\_04\_0 Patient Address Structure

## Field Values

- 25 Not Applicable
- 15 Not Reporting
  - Relevant Value for Data Element & Patient Care
- 20 Not Recorded

## Additional Information

- Can be stored as a 5 or 9 digit code

## Uses

- Allows data to be sorted based on the geographic location of the patient's home
- Allows data to describe geographic location of the patient's home
- Key component of an EMS Medical Record
- Provides contact information for multiple purposes including follow-up, billing, bioterrorism syndromic surveillance, etc

## Data Collector

- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

## Other Associated Elements

<b>E00</b>	Common Null Values	<b>E01_01</b>	Patient Care Report Number
<b>E06_01</b>	Last Name	<b>E06_04</b>	Patient's Home Address
<b>E06_05</b>	Patient's Home City	<b>E06_06</b>	Patient's Home County
<b>E06_07</b>	Patient's Home State		

## References in NHTSA Version 1

Essential Element 37 Zip Code of Residence

## Section E06 Patient

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

GENDER

E06\_11

Data Format [combo] single-choice

National Element

Definition

The patient's gender

XSD Data Type	xs:integer	XSD Domain (Simple Type)	Gender
Multiple Entry Configuration	No	Accepts Null	Yes
Required in XSD	Yes		

Field Values

-25	Not Applicable	-20	Not Recorded
-15	Not Reporting		
650	Male	655	Female

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on gender
- Allows data to describe the gender of the EMS patient population

Data Collector

- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
E06_01	Last Name		

References in NHTSA Version 1

Essential Element 42 Gender

References to Other Databases

- NFIRS 5.0 EMS Module; Title: Gender; Pick-List: Male = 1, Female = 2

Section E06 Patient

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# RACE

E06\_12

**Data Format** [combo] single-choice

*National Element*

## Definition

The patient's race as defined by the OMB (US Office of Management and Budget)

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *Race*

**Multiple Entry Configuration** No

**Accepts Null** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

660 American Indian or Alaska Native

665 Asian

670 Black or African American

675 Native Hawaiian or Other Pacific Islander

680 White

685 Other Race

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on race as required from a state and federal government reporting perspective
- Allows data to describe the race of the EMS patient population

## Data Collector

- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

## Other Associated Elements

E00 Common Null Values

E01\_01 Patient Care Report Number

E06\_01 Last Name

## References in NHTSA Version 1

Essential Element 43 Race/Ethnicity

## References to Other Databases

- NFIRS 5.0 EMS Module; Title: Race; Pick-List: White = 1, Black = 2, American Indian, Eskimo, Aleut = 3, Asian = 4, Other, Multi-racial = 0, Race Undetermined = U

## Section E06 Patient

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

ETHNICITY

E06\_13

Data Format [combo] single-choice

National Element

Definition

The patient's ethnicity as defined by the OMB (US Office of Management and Budget)

XSD Data Type	xs:integer	XSD Domain (Simple Type)	Ethnicity
Multiple Entry Configuration	No	Accepts Null	Yes
Required in XSD	Yes		

Field Values

-25	Not Applicable	-15	Not Reporting
-20	Not Recorded		
690	Hispanic or Latino	695	Not Hispanic or Latino

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on ethnicity as required from a state and federal government reporting perspective
- Allows data to describe the ethnicity of the EMS patient population

Data Collector

- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
E06_01	Last Name		

References in NHTSA Version 1

Essential Element 43 Race/Ethnicity

References to Other Databases

- NFIRS 5.0 EMS Module; Title: Ethnicity; Check-Box: Hispanic = Yes or No

Section E06 Patient

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# AGE

E06\_14

**Data Format** [number]

*National Element*

## Definition

The patient's age (either calculated from date of birth or best approximation)

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *Age*

**Multiple Entry Configuration** No

**Accepts Null** Yes, but null value is blank or empty

**Required in XSD** Yes

**Minimum Constraint** 1

**Maximum Constraint** 120

XSD Structure: E06\_14 and E06\_15 are members of the E06\_14\_0 Patient's Age Structure

## Field Values

- Relevant Value for Data Element & Patient Care

## Additional Information

- Could be calculated from Date of Birth (E06\_16)

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on age
- Allows data to describe the age of the EMS patient population

## Data Collector

- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

## Other Associated Elements

**E01\_01** Patient Care Report Number

**E06\_01** Last Name

**E06\_15** Age Units

## References in NHTSA Version 1

Desirable Element 41 Age

## References to Other Databases

- NFIRS 5.0 EMS Module; Title: Age; The age of the patient or best approximation. If less than one year then enter the number of months.

## Section E06 Patient

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)



AGE UNITS

E06\_15

Data Format [combo] single-choice

National Element

Definition

The units which the age is documented in (Hours, Days, Months, Years)

<b>XSD Data Type</b>	<i>xs:integer</i>	<b>XSD Domain (Simple Type)</b>	<i>AgeUnits</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes

Required in XSD Yes

XSD Structure: E06\_14 and E06\_15 are members of the E06\_14\_0 Patient's Age Structure

Field Values

-25	Not Applicable	-15	Not Reporting
-20	Not Recorded		
700	Hours	705	Days
710	Months	715	Years

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on age
- Allows data to describe the age of the EMS patient population

Data Collector

- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
E06_14	Age		

References in NHTSA Version 1

Desirable Element 41 Age

Section E06 Patient

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# DATE OF BIRTH

E06\_16

Data Format [date]

## Definition

The patient's date of birth

<b>XSD Data Type</b>	<i>xs:date</i>	<b>XSD Domain (Simple Type)</b>	<i>DateOfBirth</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	No
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	1,890
		<b>Maximum Constraint</b>	2,030

## Field Values

- Relevant Value for Data Element & Patient Care

## Uses

- Key component of an EMS Medical Record
- Provides important information which will allow EMS data to be sorted, grouped and evaluated by age demographics

## Data Collector

- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

## Other Associated Elements

E01_01	Patient Care Report Number	E06_01	Last Name
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## References in NHTSA Version 1

Essential Element 40 Date of Birth

## References to Other Databases

- NFIRS 5.0 EMS Module; Title: Date of Birth; The date of birth of the patient in MMDDYYYY format.

# ***Billing***

***Section E07 Billing***

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

PRIMARY METHOD OF PAYMENT

E07\_01

Data Format [combo] single-choice

National Element

Definition

The primary method of payment or type of insurance associated with this EMS encounter

XSD Data Type	xs:integer	XSD Domain (Simple Type)	PrimaryMethodOfPayment
Multiple Entry Configuration	No	Accepts Null	Yes
Required in XSD	Yes		

Field Values

-25	Not Applicable	-15	Not Reporting
-20	Not Recorded	720	Insurance
725	Medicaid	730	Medicare
735	Not Billed (for any reason)	740	Other Government
745	Self Pay	750	Workers Compensation

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the payer mix
- Allows data to describe the EMS patient population's payer mix

Data Collector

- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
E06_01	Last Name		

# CMS SERVICE LEVEL

E07\_34

**Data Format** [combo] single-choice

*National Element*

## Definition

The CMS service level for this EMS encounter.

<b>XSD Data Type</b>	<i>xs:integer</i>	<b>XSD Domain (Simple Type)</b>	<i>CMSServiceLevel</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	Yes		

## Field Values

<b>-25</b> Not Applicable	<b>-15</b> Not Reporting
<b>-20</b> Not Recorded	<b>990</b> BLS
<b>995</b> BLS, Emergency	
<b>1000</b> ALS, Level 1	<b>1005</b> ALS, Level 1 Emergency
<b>1010</b> ALS, Level 2	<b>1015</b> Paramedic Intercept
<b>1020</b> Specialty Care Transport	<b>1025</b> Fixed Wing (Airplane)
<b>1030</b> Rotary Wing (Helicopter)	

## Uses

- Allows data to be quantified and described based on the CMS Service Level
- Allows data to be sorted based on the CMS Service Level
- Important for EMS billing

## Data Collector

- EMS personnel unless the EMS Agency has professional billing personnel to provide this function

## Other Associated Elements

<b>E00</b>	Common Null Values	<b>E01_01</b>	Patient Care Report Number
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## Section E07 Billing

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# CONDITION CODE NUMBER

E07\_35

**Data Format** [combo] multiple-choice

*National Element*

## Definition

The condition codes are used to better describe the service and patient care delivery by an EMS service. Please consult CMS documentation for detailed descriptions of these condition codes and their use.

**XSD Data Type** *xs:string* **XSD Domain (Simple Type)** *ConditionCodeNumber*  
**Multiple Entry Configuration** Yes, via structure **Accepts Null** Yes  
**Required in XSD** Yes **Minimum Constraint** 2 **Maximum Constraint** 30  
XSD Structure: E07\_35, E07\_36 are members of E07\_35\_0 Condition Codes Structure

## Field Values

-25 Not Applicable	-15 Not Reporting
-20 Not Recorded	
8001 Severe Abdominal Pain (ALS-789.00)	8002 Abdominal Pain (ALS-789.00)
8003 Abnormal Cardiac Rhythm/Cardiac Dysrhythmia (ALS-427.9)	8004 Abnormal Skin Signs (ALS-780.8)
8005 Abnormal Vital Signs (ALS-796.4)	8006 Allergic Reaction (ALS-995.0)
8007 Allergic Reaction (BLS-692.9)	8008 Blood Glucose (ALS-790.21)
8009 Respiratory Arrest (ALS-799.1)	8010 Difficulty Breathing (ALS-786.05)
8011 Cardiac Arrest-Resuscitation in Progress (ALS-427.5)	8012 Chest Pain (non-traumatic) (ALS-786.50)
8013 Choking Episode (ALS-784.9)	8014 Cold Exposure (ALS-991.6)
8015 Cold Exposure (BLS-991.9)	8016 Altered Level of Consciousness (non-traumatic) (ALS-780.01)
8017 Convulsions/Seizures (ALS-780.39)	8018 Eye Symptoms (non-traumatic) (BLS-379.90)
8019 Non Traumatic Headache (ALS-437.9)	8020 Cardiac Symptoms other than Chest Pain (palpitations) (ALS-785.1)
8021 Cardiac Symptoms other than Chest Pain (atypical pain) (ALS-536.2)	8022 Heat Exposure (ALS-992.5)
8023 Heat Exposure (BLS-992.2)	8024 Hemorrhage (ALS-459.0)
8025 Infectious Diseases requiring Isolation/Public Health Risk (BLS-038.9)	8026 Hazmat Exposure (ALS-987.9)
8027 Medical Device Failure (ALS-996.0)	8028 Medical Device Failure (BLS-996.3)
8029 Neurologic Distress (ALS-436.0)	8030 Pain (Severe) (ALS-780.99)
8031 Back Pain (non-traumatic possible cardiac or vascular) (ALS-724.5)	8032 Back Pain (non-traumatic with neurologic symptoms) (ALS-724.9)
8033 Poisons (all routes) (ALS-977.9)	8034 Alcohol Intoxication or Drug Overdose (BLS-305.0)
8035 Severe Alcohol Intoxication (ALS-977.3)	8036 Post-Operative Procedure Complications (BLS-998.9)
8037 Pregnancy Complication/Childbirth/Labor (ALS-650.0)	8038 Psychiatric/Behavioral (abnormal mental status) (ALS-292.9)
8039 Psychiatric/Behavioral (threat to self or others) (BLS-298.9)	8040 Sick Person-Fever (BLS-036.9)
8041 Severe Dehydration (ALS-787.01)	8042 Unconscious/Syncope/Dizziness (ALS-780.02)
8043 Major Trauma (ALS-959.8)	8044 Other Trauma (need for monitor or airway) (ALS-518.5)
8045 Other Trauma (major bleeding) (ALS-958.2)	8046 Other Trauma (fracture/dislocation) (BLS-829.0)
8047 Other Trauma (penetrating extremity) (BLS-880.0)	8048 Other Trauma (amputation digits) (BLS-886.0)
8049 Other Trauma (amputation other) (ALS-887.4)	8050 Other Trauma (suspected internal injuries) (ALS-869.0)
8051 Burns-Major (ALS-949.3)	8052 Burns-Minor (BLS-949.2)
8053 Animal Bites/Sting/Envenomation (ALS-989.5)	8054 Animal Bites/Sting/Envenomation (BLS-879.8)
8055 Lightning (ALS-994.0)	8056 Electrocution (ALS-994.8)

## Section E07 Billing

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

- |  |  |
|--|--|
| <b>8057</b> Near Drowning (ALS-994.1)                                  | <b>8058</b> Eye Injuries (BLS-921.9)                             |
| <b>8059</b> Sexual Assault (major injuries) (ALS-995.83)               | <b>8060</b> Sexual Assault (minor injuries) (BLS-995.8)          |
| <b>8061</b> Cardiac/Hemodynamic Monitoring Required (ALS-428.9)        | <b>8062</b> Advanced Airway Management (ALS-518.81)              |
| <b>8063</b> IV Meds Required (ALS-No ICD code provided))               | <b>8064</b> Chemical Restraint (ALS-293.0)                       |
| <b>8065</b> Suctioning/Oxygen/IV fluids required (BLS-496.0)           | <b>8066</b> Airway Control/Positioning Required (BLS-786.09)     |
| <b>8067</b> Third Party Assistance/Attendant Required (BLS-496.0)      | <b>8068</b> Patient Safety (restraints required) (BLS-298.9)     |
| <b>8069</b> Patient Safety (monitoring required) (BLS-293.1)           | <b>8070</b> Patient Safety (seclusion required) (BLS-298.8)      |
| <b>8071</b> Patient Safety (risk of falling off stretcher) (BLS-781.3) | <b>8072</b> Special Handling (Isolation) (BLS-041.9)             |
| <b>8073</b> Special Handling (orthopedic device required) (BLS-907.2)  | <b>8074</b> Special Handling (positioning required) (BLS-719.45) |

## Additional Information

- A list of 95 Condition Codes which are mapped to ICD-9 Codes. At this time the Condition Code List is still in draft. The number of the Condition Code should be stored in this field
- From the Center for Medicare and Medicaid Services (CMS) Ambulance Fee Schedule Condition Based Coding

## Uses

- Allows data to be quantified and described based on the Condition Code
- Allows data to be sorted based on the Condition Code
- Important for EMS billing

## Data Collector

- EMS personnel unless the EMS Agency has professional billing personnel to provide this function

## Other Associated Elements

<b>E00</b>	Common Null Values	<b>E01_01</b>	Patient Care Report Number
<b>E07_36</b>	ICD-9 Code for the Condition Code Number	<b>E07_37</b>	Condition Code Modifier

## Section E07 Billing

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# ***Scene***



NUMBER OF PATIENTS AT SCENE

E08\_05

Data Format [combo] single-choice

National Element

Definition

Indicator of how many total patients were at the scene

XSD Data Type	xs:integer	XSD Domain (Simple Type)	NumberOfPatientsAtScene
Multiple Entry Configuration	No	Accepts Null	Yes
Required in XSD	Yes		

Field Values

-25	Not Applicable	-15	Not Reporting
-20	Not Recorded		
1120	None	1125	Single
1130	Multiple		

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the number of patients associated with the event and resources required
- Allows data to describe the number of EMS events with multiple patient encounters

Data Collector

- EMS personnel

Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
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References to Other Databases

- NFIRS 5.0 EMS Module; Title: Number of Patients; The total number of patients.

MASS CASUALTY INCIDENT

E08\_06

Data Format [combo] single-choice

National Element

Definition

Indicator if this event would be considered a mass casualty incident (overwhelmed existing EMS resources)

XSD Data Type	xs:integer	XSD Domain (Simple Type)	YesNoValues
Multiple Entry Configuration	No	Accepts Null	Yes
Required in XSD	Yes		

Field Values

-25	Not Applicable	-15	Not Reporting
-20	Not Recorded	0	No
1	Yes		

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on a Mass Casualty Event
- Allows data to describe the number of EMS events which were declared a mass casualty event and is connected with disaster and domestic preparedness

Data Collector

- EMS personnel

Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
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Section E08 Scene

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

INCIDENT LOCATION TYPE

E08\_07

Data Format [combo] single-choice

National Element

Definition

The kind of location where the incident happened

XSD Data Type	xs:integer	XSD Domain (Simple Type)	IncidentLocationType
Multiple Entry Configuration	No	Accepts Null	Yes
Required in XSD	Yes		

Field Values

-25	Not Applicable	-15	Not Reporting
-20	Not Recorded	1135	Home/Residence
1140	Farm		
1145	Mine or Quarry	1150	Industrial Place and Premises
1155	Place of Recreation or Sport	1160	Street or Highway
1165	Public Building (schools, gov. offices)	1170	Trade or service (business, bars, restaurants, etc)
1175	Health Care Facility (clinic, hospital, nursing home)	1180	Residential Institution (Nursing Home, jail/prison)
1185	Lake, River, Ocean	1190	Other Location

Additional Information

- Based on ICD-9

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the Incident Location and Type
- Allows data to describe the Incident Location and the distribution of EMS events

Data Collector

- EMS personnel

Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
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References in NHTSA Version 1

Essential Element 05 Location Type

References to Other Databases

- UTSTEIN Title: Location of Arrest: Out of Hospital; Same as NHTSA E-Codes

# SCENE GPS LOCATION

E08\_10

Data Format [text]

## Definition

The GPS coordinates associated with the Scene.

<b>XSD Data Type</b>	<i>xs:decimal</i>	<b>XSD Domain (Simple Type)</b>	<i>GPSLocation</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	No
<b>Required in XSD</b>	No		

XSD Attributes: Latitude and Longitude are each stored as a separate attribute

## Field Values

- Relevant Value for Data Element & Patient Care

## Uses

- Important for grouping or comparing data by Scene location which also allows data to be sorted by geographic response areas in many agencies
- Provides information on overall response patterns and times for agency configuration and evaluation

## Data Collector

- EMS agency or may be electronically provided through the 911 or dispatch center

## Other Associated Elements

E01_01	Patient Care Report Number	E08_07	Incident Location Type
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## Section E08 Scene

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# INCIDENT ADDRESS

E08\_11

Data Format [text]

## Definition

The street address (or best approximation) where the patient was found, or, if no patient, the address to which the unit responded.

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>StreetAddress</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	2
		<b>Maximum Constraint</b>	30
XSD Structure: E08_11, E08_12, E08_14, E08_15 are all members of E08_11_0 Incident Address Structure			

## Field Values

- 25 Not Applicable
- 15 Not Reporting
- 20 Not Recorded
- Relevant Value for Data Element & Patient Care

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Important for grouping or comparing data by Scene location which also allows data to be sorted by geographic response areas in many agencies
- Provides information on overall response patterns and times for agency configuration and evaluation

## Data Collector

- EMS agency or may be electronically provided through the 911 or dispatch center

## Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
E08_07	Incident Location Type	E08_12	Incident City
E08_14	Incident State	E08_15	Incident ZIP Code

## References in NHTSA Version 1

Essential Element 01 Incident Address

## Section E08 Scene

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

Data Format [combo] single-choice

Definition

The city or township (if applicable) where the patient was found or to which the unit responded (or best approximation)

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>City</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	2
		<b>Maximum Constraint</b>	30
XSD Structure: E08_11, E08_12, E08_14, E08_15 are all members of E08_11_0 Incident Address Structure			

Field Values

- 25 Not Applicable
- 20 Not Recorded
- 15 Not Reporting
  - Relevant Value for Data Element & Patient Care

Additional Information

- 5 digit FIPS Code
- Could be filled in from Incident Zip Code entry (E08\_15)

Uses

- A component of the EMS Medical Record: Patient Care Report
- Important for grouping or comparing data by Scene location which also allows data to be sorted by geographic response areas in many agencies
- Provides information on overall response patterns and times for agency configuration and evaluation

Data Collector

- EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements

<b>E00</b>	Common Null Values	<b>E01_01</b>	Patient Care Report Number
<b>E08_07</b>	Incident Location Type	<b>E08_11</b>	Incident Address
<b>E08_14</b>	Incident State	<b>E08_15</b>	Incident ZIP Code

References in NHTSA Version 1

Essential Element 02 Incident City

# INCIDENT STATE

E08\_14

Data Format [combo] single-choice

## Definition

The state, territory, or province where the patient was found or to which the unit responded (or best approximation)

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>State</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	2
		<b>Maximum Constraint</b>	3
XSD Structure: E08_11, E08_12, E08_14, E08_15 are all members of E08_11_0 Incident Address Structure			

## Field Values

- 25 Not Applicable
- 20 Not Recorded
- 15 Not Reporting
  - Relevant Value for Data Element & Patient Care

## Additional Information

- 2 digit FIPS numeric code (Not State abbreviation)
- Could be filled in from Incident Zip Code entry (E08\_15)

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Important for grouping or comparing data by Scene location which also allows data to be sorted by geographic response areas in many agencies
- Provides information on overall response patterns and times for agency configuration and evaluation

## Data Collector

- EMS agency or may be electronically provided through the 911 or dispatch center

## Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
E08_07	Incident Location Type	E08_11	Incident Address
E08_12	Incident City	E08_15	Incident ZIP Code

## References in NHTSA Version 1

Essential Element 04 Incident State

## References to Other Databases

- NFIRS 5.0 Basic Module 1; Title: State; 2 digit FIPS; Text Field Size = 2

INCIDENT ZIP CODE

E08\_15

Data Format [text]

National Element

Definition

The ZIP code of the incident location

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>Zip</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	Yes	<b>Minimum Constraint</b>	2
		<b>Maximum Constraint</b>	10
XSD Structure: E08_11, E08_12, E08_14, E08_15 are all members of E08_11_0 Incident Address Structure			

Field Values

- 25 Not Applicable
- 15 Not Reporting
- 20 Not Recorded
- Relevant Value for Data Element & Patient Care

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the geographic location of the EMS Incident
- Allows data to describe geographic location of the EMS Incident

Data Collector

- EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements

<b>E00</b>	Common Null Values	<b>E01_01</b>	Patient Care Report Number
<b>E08_07</b>	Incident Location Type	<b>E08_11</b>	Incident Address
<b>E08_12</b>	Incident City	<b>E08_14</b>	Incident State

Section E08 Scene

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)



# ***Situation***

***Section E09 Situation***

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

**Data Format** [combo] multiple-choice

*National Element*

**Definition**

Any care which was provided to the patient prior to the arrival of this unit.

**XSD Data Type** *xs:string*

**XSD Domain (Simple Type)** *PriorAid*

**Multiple Entry Configuration** Yes

**Accepts Null** Yes

**Required in XSD** Yes

**Minimum Constraint** 2

**Maximum Constraint** 30

**Field Values**

-25 Not Applicable	-15 Not Reporting	
-20 Not Recorded		
12 Lead ECG-Obtain	6130	IFT - Anticonvulsants
12 Lead ECG-Transmitted	154060	IFT - Antidysrhythmics, cardiac, and pressor agents
Activated Charcoal	111	IFT - Benzodiazepines, narcotics, anesthetics, or sedatives
Activation-Fire Rehabilitation Specialty Service/Response Team	154062	IFT - Blood Products
Adenosine	61	IFT - Digoxin
AED-First Responder	6740	IFT - Electrolyte infusions
AED-Public Access	6750	IFT - Glycoprotein IIb / IIIa inhibitors
Airway-Bagged (via BVMask)	154044	IFT - Heparin
Airway-BiPAP	154067	IFT - Insulin Infusion
Airway-Change Tracheostomy Tube	6150	IFT - Intravenous steroids
Airway-Cleared, Opened, or Heimlich	6160	IFT - Mannitol (Osmitrol)
Airway-Cleared, Opened, or Heimlich	154101	IFT - Norepinephrine
Airway-Combitube Blind Insertion Airway Device	6170	IFT - Octreotide
Airway-CPAP	6180	IFT - Other medications as approved by the OEMS director
Airway-Direct Laryngoscopy	154068	IFT - Paralytics
Airway-Extubation	154069	IFT - Parenteral nutrition (PPN or TPN) (via central or peripheral)
Airway-Foreign Body Removal	6225	IFT - Thrombolytic agents
Airway-Impedance Threshold Device	154032	IFT - Vasopressin
Airway-Intubation Confirm Colorimetric CO2	6200	Injections-SQ/IM
Airway-Intubation Confirm Esophageal Bulb	6210	Lidocaine
Airway-Intubation of Existing Tracheostomy Stoma	154070	Lorazepam (Ativan)
Airway-King LT Blind Insertion Airway Device	154034	Magnesium Sulfate
Airway-Laryngeal Mask Blind Insertion Airway Device	6220	Methylprednisolone (Solu-Medrol)
Airway-Nasal	6230	Metoprolol (Lopressor)
Airway-Nasotracheal Intubation	6240	Midazolam (Versed)
Airway-Nebulizer Treatment	6250	Morphine Sulfate
Airway-Needle Cricothyrotomy	6260	Naloxone (Narcan)
Airway-Oral	6270	Nerve Agent Antidote Kit (Mark 1) (Atropine and Pralidoxime)
Airway-Orotracheal Intubation	6280	Nitroglycerin
Airway-Rapid Sequence Induction	6300	Nitropaste 2%(1 inch=15mg nitro)
Airway-Suctioning	6320	Normal Saline
Airway-Ventilator Operation	6340	Not Applicable
Airway-Ventilator Settings Adjustment	154100	Not Recorded
Airway-Ventilator with PEEP	154043	Not Reporting
Albuterol Sulfate	31	Ondansetron (Zofran)
Amiodorone (Cordarone)	65	Orthostatic Blood Pressure Measurement
Amyl Nitrate	4	Oxygen
Aspirin (ASA)	81	Oxygen (non-rebreather mask)

Assessment-Adult	154022	Oxygen by Blow By
Assessment-Pediatric	154023	Oxygen by Mask
Atropine Sulfate	21	Oxygen by Nasal Cannula
Atrovent (Ipratropium Bromide)	60	Oxygen by Nebulizer
Blood Glucose Analysis	6370	Oxygen by Positive Pressure Device
Calcium Chloride	161	Oxytocin (Pitocin)
Capnography (CO2 Measurement)	6380	Pain Measurement
Cardiac Monitor	6390	Patient Cooling (Cold Pack, etc.)
Cardiac Pacing-External	6500	Patient Cooling-Post Resuscitation
Cardioversion	6400	Patient Monitoring of Pre-existing Devices, Equipment or Ongoing Medications
Cetacaine Spray	156022	Patient Monitoring of Pre-existing Devices, Equipment, or Ongoing Medications
Chest Decompression	6420	Patient Warming (Hot Pack, etc.)
Childbirth	6430	Phenylephrine HCl (Neo-Synephrine)
Contact Medical Control	154072	Pulse Oximetry
CPR by Other External Automated Device	154001	Restraints-Physical
CPR-AutoPulse Device	154073	Sodium bicarbonate
CPR-Mechanical Thumper Type Device	154074	Sodium Nitrate (Cyanide Kit)
CPR-Start Compressions and Ventilations	6460	Sodium Thiosulfate (Cyanide Kit)
CPR-Stop	154048	Specialty Center Activation-Adult Trauma
D5W (Dextrose 5% in Water)	156010	Specialty Center Activation-Pediatric Trauma
Decontamination	154025	Specialty Center Activation-STEMI
Defibrillation - Placement for Monitoring/Analysis	6470	Specialty Center Activation-Stroke
Defibrillation-Automated (AED)	6480	Spinal Immobilization
Defibrillation-Manual	6490	Splinting-Basic
Dextrose 10% (D10)	156003	Splinting-Traction
Dextrose 25% (D25)	156002	Temperature Measurement
Dextrose 50% (D50)	171	Tetracaine
Diazepam (Valium)	121	Thiamine
Diltiazem (Cardizem)	436	Thrombolytic Screen
Diphenhydramine (Benadryl)	11	Vagal Maneuver-Carotid Massage
Dopamine	16	Vagal Maneuver-Valsalva or other Vagal Maneuver(Not Carotid Massage)
DuoNeb (0.5 Atrovent/3.0 Albuterol)	156013	Venous Access-Blood Draw
Epi-Pen Adult	418	Venous Access-Central Line Maintenance
Epi-Pen Junior	419	Venous Access-Discontinue
Epinephrine 1:10,000	441	Venous Access-Existing Catheter
Epinephrine 1:1000	440	Venous Access-External Jugular Line
Fentanyl	325	Venous Access-Extremity
Furosemide (Lasix)	132	Venous Access-Intraosseous Adult
Gastic Tube Insertion-Inserted Nasally	6530	Venous Access-Intraosseous Pediatric
Glucagon	231	Venous Access-Swan Ganz Maintain
Glucose (Oral)	156023	Venous Access-Umbilical Vein Cannulation
Hurricane Spray	437	Waiver - Etomidate
Hydrocortisone	156159	Waiver - Succinylcholine (Anectine)
Hydroxocobalamin (2.5g/vial)	156122	Waiver - Vecuronium (Norcuron)
IFT - Aminophylline	156158	Wound Care-General
IFT - Anti-sepsis support medications	156105	Wound Care-General
IFT - Antibiotics	417	Wound Care-Tourniquet

## Additional Information

- List created from Procedures (D04\_04) and Medications (D04\_06)

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the specific prior aid received or not received by the patient
- Allows data to describe aid which was provided prior to EMS arrival
- Used as a Quality Management tool to evaluate Bystander and First Responder involvement

## Data Collector

- EMS personnel

## Other Associated Elements

## E00 Common Null Values

**E01\_01** Patient Care Report Number

## References in NHTSA Version 1

Desirable Element 58 Time of First CPR

## References to Other Databases

- **NFIRS 5.0** EMS Module; Title: Cardiac Arrest; Pick-List: Pre-Arrival Arrest = 1, Post-Arrival Arrest = 2;
- **NFIRS 5.0** EMS Module; Title: Pre-Arrival Details; Pick-List: Witnessed = 1, Bystander CPR = 2
- **UTSTEIN** Title: CPR Before EMS and Rhythm Analysis or Defibrillation before EMS; [combo] Yes = Y, No = No, U = Unknown

PRIOR AID PERFORMED BY

E09\_02

Data Format [combo] multiple-choice

National Element

Definition

The type of individual who performed the care prior to the arrival of this unit.

XSD Data Type	xs:integer	XSD Domain (Simple Type)	PriorAidPerformedBy
Multiple Entry Configuration	Yes	Accepts Null	Yes
Required in XSD	Yes		

Field Values

-25	Not Applicable	-15	Not Reporting
-20	Not Recorded	1195	EMS Provider
1200	First Responder	1205	Lay Person
1210	Other Healthcare Provider	1215	Patient

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on who provided specific prior aid
- Allows data to describe who performed any aid which was provide prior to EMS arrival to the patient
- Used as a Quality Management tool to evaluate Bystander and First Responder involvement

Data Collector

- EMS personnel

Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
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Section E09 Situation

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# OUTCOME OF THE PRIOR AID

E09\_03

**Data Format** [combo] single-choice

*National Element*

## Definition

What was the outcome or result of the care performed prior to the arrival of the unit?

<b>XSD Data Type</b>	<i>xs:integer</i>	<b>XSD Domain (Simple Type)</b>	<i>OutcomeOfPriorAid</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	Yes		

## Field Values

-25 Not Applicable	-15 Not Reporting
-20 Not Recorded	1220 Improved
1225 Unchanged	1230 Worse

## Uses

- Allows data to be sorted based on the perceived outcome which resulted from specific prior aid received by the patient
- Allows data to describe aid which was provided prior to EMS arrival
- Used as a Quality Management tool to evaluate Bystander and First Responder involvement

## Data Collector

- EMS personnel

## Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
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## Section E09 Situation

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

POSSIBLE INJURY

E09\_04

Data Format [combo] single-choice

National Element

Definition

Indicates that the reason for the EMS encounter was related to an injury or traumatic event. This data element provides documentation to classify the EMS Reason for Encounter as either injury or non-injury related based on mechanism and not on actual injury

XSD Data Type	<i>xs:integer</i>	XSD Domain (Simple Type)	<i>YesNoValues</i>
Multiple Entry Configuration	No	Accepts Null	Yes
Required in XSD	Yes		

Field Values

-25	Not Applicable	-15	Not Reporting
-20	Not Recorded	0	No
1	Yes		

Additional Information

- Can be used to determine which records should have Section E10: Situation/ Trauma completed. If Injury Present (E09\_04) is “Yes”, Section E10 should be completed
- Possible Injury (E09\_04), Chief Complaint Anatomic Location (E09\_11), Chief Complaint Organ System (E09\_12), and Primary Symptom (E09\_13) are required to calculate the Reason for Encounter

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on trauma vs. non-traumatic events
- Allows data to describe trauma within the EMS patient population
- Allows for the calculation of the "EMS Reason for Encounter" used to further describe the EMS patient population

Data Collector

- EMS personnel

Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
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Section E09 Situation

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# CHIEF COMPLAINT

E09\_05

Data [text]

## Definition

The statement of the problem by the patient or the history provider in one or two words

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>ChiefComplaintNarrative</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null Values</b>	Yes
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	2
		<b>Maximum Constraint</b>	50

## Field Values

- 25 Not Applicable
- 15 Not Reporting
- 20 Not Recorded
- Relevant Value for Data Element & Patient Care

## Uses

- Allows data to be sorted based on the use of EMS Chief Complaint
- Allows data to describe EMS services delivered based on the EMS patient's chief complaint
- Important for an EMS Medical Record

## Data Collector

- EMS personnel

## Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
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## References in NHTSA Version 1

Desirable Element 48 Chief Complaint

## Section E09 Situation

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)



# DURATION OF CHIEF COMPLAINT

E09\_06

Data [number]

## Definition

The time duration of the chief complaint

**XSD Data Type** *xs:integer*      **XSD Domain (Simple Type)** *DurationOfChiefComplaint*  
**Multiple Entry Configuration**      No      **Accepts Null Values**No  
**Required in XSD** No      **Minimum Constraint** 1      **Maximum Constraint** 360  
XSD Structure: E09\_06 and E09\_07 are members of E09\_06\_0 Duration of Chief Complaint Structure

## Field Values

- Relevant Value for Data Element & Patient Care

## Uses

- Important for an EMS Medical Record
- Important to evaluate clinical conditions which are time dependant such as MI or Stroke to determine appropriate EMS care

## Data Collector

- EMS personnel

## Other Associated Elements

E01\_01 Patient Care Report Number      E09\_05 Chief Complaint  
E09\_07 Time Units of Duration of Chief Complaint

# TIME UNITS OF DURATION OF CHIEF COMPLAINT

E09\_07

**Data** [combo] single-choice

## Definition

The time units of the duration of the patient's chief complaint

**XSD Data Type** *xs:integer* **XSD Domain (Simple Type)** *TimeUnitsOfChiefComplaint*

**Multiple Entry Configuration** No **Accepts Null Values**No

**Required in XSD** No

XSD Structure: E09\_06 and E09\_07 are members of E09\_06\_0 Duration of Chief Complaint Structure

## Field Values

- |                     |  |
|---------------------|--|
| <b>1235</b> Seconds | <b>1240</b> Minutes  |
| <b>1245</b> Hours   | <b>1250</b> Days   |
| <b>1255</b> Weeks   | <b>1260</b> Months   |
| <b>1265</b> Years   | <ul style="list-style-type: none"><li>Relevant Value for Data Element &amp; Patient Care</li></ul> |

## Uses

- Important for an EMS Medical Record
- Important to evaluate clinical conditions which are time dependant such as MI or Stroke to determine appropriate EMS care

## Data Collector

- EMS personnel

## Other Associated Elements

- |   |                               |
|---|-------------------------------|
| <b>E01_01</b> Patient Care Report Number  | <b>E09_05</b> Chief Complaint |
| <b>E09_06</b> Duration of Chief Complaint |                               |

# CHIEF COMPLAINT ANATOMIC LOCATION

E09\_11

Data Format [combo] single-choice

National Element

## Definition

The primary anatomic location of the chief complaint as identified by EMS personnel

XSD Data Type	xs:integer	XSD Domain (Simple Type)	ComplaintAnatomicLocation
Multiple Entry Configuration	No	Accepts Null	Yes
Required in XSD	Yes		

## Field Values

-25	Not Applicable	-15	Not Reporting
-20	Not Recorded	1305	Abdomen
1310	Back		
1315	Chest	1320	Extremity-Lower
1325	Extremity-Upper	1330	General/Global
1335	Genitalia	1340	Head
1345	Neck		

## Additional Information

- Possible Injury (E09\_04), Chief Complaint Anatomic Location (E09\_11), Chief Complaint Organ System (E09\_12), and Primary Symptom (E09\_13) are required to calculate the Reason for Encounter

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the patient's complaint location
- Allows data to describe the patient's complaint location
- Allows for the calculation of the "EMS Reason for Encounter" used to further describe the EMS patient population

## Data Collector

- EMS personnel

## Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
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## Section E09 Situation

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# CHIEF COMPLAINT ORGAN SYSTEM

E09\_12

Data Format [combo] single-choice

National Element

## Definition

The primary organ system of the patient injured or medically affected. This is to be completed by EMS personnel with a minimum of an EMT-Paramedic level of credentialing.

XSD Data Type	xs:integer	XSD Domain (Simple Type)	ComplaintOrganSystem
Multiple Entry Configuration	No	Accepts Null	Yes
Required in XSD	Yes		

## Field Values

-25	Not Applicable	-15	Not Reporting
-20	Not Recorded	1350	Cardiovascular
1355	CNS/Neuro		
1360	Endocrine/Metabolic	1365	GI
1370	Global	1375	Musculoskeletal
1380	OB/Gyn	1385	Psych
1390	Pulmonary	1395	Renal
1400	Skin		

## Additional Information

- Possible Injury (E09\_04), Chief Complaint Anatomic Location (E09\_11), Chief Complaint Organ System (E09\_12), and Primary Symptom (E09\_13) are required to calculate the Reason for Encounter
- This data element is to be completed by EMS personnel at the EMT-Paramedic level or higher

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows for the calculation of the "EMS Reason for Encounter" used to further describe the EMS patient population

## Data Collector

- EMS personnel

## Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
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## Section E09 Situation

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# PRIMARY SYMPTOM

E09\_13

**Data Format** [combo] single-choice

*National Element*

## Definition

The primary sign and symptom present in the patient or observed by EMS personnel

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *PrimarySymptom*

**Multiple Entry Configuration** No

**Accepts Null** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-20 Not Recorded

1410 Breathing Problem

1415 Change in responsiveness

1425 Death

1435 Diarrhea

1445 Fever

1455 Mass/Lesion

1465 Nausea/Vomiting

1475 Pain

1485 Rash/Itching

1495 Transport Only

1505 Wound

-15 Not Reporting

1405 Bleeding

1420 Choking

1430 Device/Equipment Problem

1440 Drainage/Discharge

1450 Malaise

1460 Mental/Psych

1470 None

1480 Palpitations

1490 Swelling

1500 Weakness

## Additional Information

- Possible Injury (E09\_04), Chief Complaint Anatomic Location (E09\_11), Chief Complaint Organ System (E09\_12), and Primary Symptom (E09\_13) are required to calculate the Reason for Encounter

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the patient's primary symptom
- Allows data to describe the patient's primary symptom
- Allows for the calculation of the "EMS Reason for Encounter" used to further describe the EMS patient population

## Data Collector

- EMS personnel

## Other Associated Elements

E00 Common Null Values

E01\_01 Patient Care Report Number

## References in NHTSA Version 1

Essential Element 52 Signs and Symptoms Present

## Section E09 Situation

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

OTHER ASSOCIATED SYMPTOMS

E09\_14

Data Format [combo] multiple-choice

National Element

Definition

Other symptoms identified by the patient or observed by EMS personnel

XSD Data Type	xs:integer	XSD Domain (Simple Type)	OtherAssociatedSymptoms
Multiple Entry Configuration	Yes	Accepts Null	Yes
Required in XSD	Yes		

Field Values

-25	Not Applicable	-15	Not Reporting
-20	Not Recorded	1510	Bleeding
1515	Breathing Problem		
1520	Change in responsiveness	1525	Choking
1530	Obvious Signs of Death	1535	Device/Equipment Problem
1540	Diarrhea	1545	Drainage/Discharge
1550	Fever	1555	Malaise
1560	Mass/Lesion	1565	Mental/Psych
1570	Nausea/Vomiting	1575	None
1580	Pain	1585	Palpitations
1590	Rash/Itching	1595	Swelling
1600	Transport Only	1605	Weakness
1610	Wound		

Additional Information

- This data element is used for Bioterrorism Syndromic Surveillance

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the patient's primary symptom
- Allows data to describe the patient's associated symptoms
- Allows for potential bio-terrorism surveillance based on the symptomatic presentation of the EMS Patient combined with other data points

Data Collector

- EMS personnel

Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
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References in NHTSA Version 1

Essential Element 52 Signs and Symptoms Present

Section E09 Situation

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# PROVIDERS PRIMARY IMPRESSION

E09\_15

**Data Format** [combo] single-choice

*National Element*

## Definition

The EMS personnel's impression of the patient's primary problem or most significant condition which led to the management given to the patient (treatments, medications, or procedures).

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *ProvidersPrimaryImpression*

**Multiple Entry Configuration** No

**Accepts Null** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-20 Not Recorded

1620 519.80- Airway obstruction

1625 995.30- Allergic reaction

1635 312.90- Behavioral / psychiatric disorder

1645 427.90- Cardiac rhythm disturbance

1655 250.90- Diabetic symptoms (hypoglycemia)

1665 780.60- Hyperthermia

1675 785.59- Hypovolemia / shock

1685 798.99- Obvious Signs of Death

1695 659.90- Pregnancy / OB delivery

1705 799.10- Respiratory arrest

1715 959.90- Sexual assault / rape

1725 989.50- Stings / venomous bites

1735 780.20- Syncope / fainting

1745 623.80- Vaginal hemorrhage

-15 Not Reporting

1615 789.00- Abdominal pain / problems

1630 780.09- Altered level of consciousness

1640 427.50- Cardiac arrest

1650 786.50- Chest pain / discomfort

1660 994.80- Electrocution

1670 780.90- Hypothermia

1680 987.90- Inhalation injury (toxic gas)

1690 977.90- Poisoning / drug ingestion

1700 786.09- Respiratory distress

1710 780.30- Seizure

1720 987.90- Smoke inhalation

1730 436.00- Stroke / CVA

1740 959.90- Traumatic injury

## Additional Information

- ICD-9 Codes were retained over ICD-10 due to CMS's continued use of ICD-9 in the EMS Condition Codes

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the EMS personnel's clinical impression
- Allows data to describe the EMS patient population based on EMS personnel impression of the EMS patient's problem

## Data Collector

- EMS personnel

## Other Associated Elements

E00 Common Null Values

E01\_01 Patient Care Report Number

## References in NHTSA Version 1

Essential Element 50 Providers Impression

## References to Other Databases

- NFIRS 5.0 EMS Module; Title: Provider Impression/Assessment; The emergency providers single most important impression/assessment which drove the choice of treatment; [combo] Abdominal Pain = 10, Airway Obstruction = 11, Allergic Reaction, excludes stings & venomous bites = 12, Altered Level of Consciousness = 13, Behavioral-Mental Status, Psychiatric Disorder = 14, Burns = 15, Cardiac Arrest = 16, Cardiac Dysrhythmia = 17, Chest Pain = 18, Diabetic Symptom = 19, Do Not Resuscitate = 20, Electrocution = 21, General Illness = 2, Hemorrhaging/Bleeding = 23, Hyperthermia = 24, Hypothermia = 25, Hypovolemia = 26, Inhalation Injury, Toxic Gases = 27, Obvious Death = 28, Overdose/Poisoning = 29, Pregnancy/OB = 30, Respiratory Arrest = 31, Respiratory Distress = 32, Seizure = 33, Sexual Assault = 34, Sting/Bite = 35, Stroke/CVA = 36, Syncope, Fainting = 37, Trauma = 38, Other Impression/Assessment = 00, None/No patient or refused Treatment = NN

## Section E09 Situation

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# PROVIDER'S SECONDARY IMPRESSION

E09\_16

**Data Format** [combo] single-choice

*National Element*

## Definition

The EMS personnel's impression of the patient's secondary problem or which led to the management given to the patient (treatments, medications, or procedures).

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *ProvidersSecondaryImpression*

**Multiple Entry Configuration** No

**Accepts Null** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-20 Not Recorded

1620 519.80- Airway obstruction

1625 995.30- Allergic reaction

1635 312.90- Behavioral / psychiatric disorder

1645 427.90- Cardiac rhythm disturbance

1655 250.90- Diabetic symptoms (hypoglycemia)

1665 780.60- Hyperthermia

1675 785.59- Hypovolemia / shock

1685 798.99- Obvious Signs of Death

1695 659.90- Pregnancy / OB delivery

1705 799.10- Respiratory arrest

1715 959.90- Sexual assault / rape

1725 989.50- Stings / venomous bites

1735 780.20- Syncope / fainting

1745 623.80- Vaginal hemorrhage

-15 Not Reporting

1615 789.00- Abdominal pain / problems

1630 780.09- Altered level of consciousness

1640 427.50- Cardiac arrest

1650 786.50- Chest pain / discomfort

1660 994.80- Electrocution

1670 780.90- Hypothermia

1680 987.90- Inhalation injury (toxic gas)

1690 977.90- Poisoning / drug ingestion

1700 786.09- Respiratory distress

1710 780.30- Seizure

1720 987.90- Smoke inhalation

1730 436.00- Stroke / CVA

1740 959.90- Traumatic injury

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the EMS personnel's clinical impression
- Allows data to describe the EMS patient population based on EMS personnel impression of the EMS patient's problem

## Data Collector

- EMS personnel

## Other Associated Elements

E00 Common Null Values

E01\_01 Patient Care Report Number

## References in NHTSA Version 1

Essential Element 50 Providers Impression

## Section E09 Situation

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)



# ***Situation/ Trauma***

***Section E10 Situation/ Trauma***

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# CAUSE OF INJURY

E10\_01

**Data Format** [combo] single-choice

*National Element*

## Definition

The category of the reported/suspected external cause of the injury

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *CauseOfInjury*

**Multiple Entry Configuration** No

**Accepts Null** Yes

**Required in XSD** Yes

## Field Values

-25	Not Applicable	-15	Not Reporting
-20	Not Recorded	9500	Aircraft related accident (E84X.0)
9505	Bicycle Accident (E826.0)	9515	Chemical poisoning (E86X.0)
9510	Bites (E906.0)	9525	Drowning (E910.0)
9520	Child battering (E967.0)	9535	Electrocution (non-lightning) (E925.0)
9530	Drug poisoning (E85X.0)	9545	Excessive Heat (E900.0)
9540	Excessive Cold (E901.0)	9555	Fire and Flames (E89X.0)
9550	Falls (E88X.0)	9565	Firearm injury (accidental) (E985.0)
9560	Firearm assault (E965.0)	9575	Lightning (E907.0)
9570	Firearm self inflicted (E955.0)	9585	Mechanical Suffocation (E913.0)
9580	Machinery accidents (E919.0)	9595	Motor Vehicle traffic accident (E81X.0)
9590	Motor Vehicle non-traffic accident (E82X.0)	9605	Non-Motorized Vehicle Accident (E848.0)
9600	Motorcycle Accident (E81X.1)	9615	Radiation exposure (E926.0)
9610	Pedestrian traffic accident (E814.0)	9625	Smoke Inhalation (E89X.2)
9620	Rape (E960.1)	9635	Stabbing/Cutting Assault (E966.0)
9630	Stabbing/Cutting Accidental (E986.0)	9645	Venomous stings (plants, animals) (E905.0)
9640	Struck by Blunt/Thrown Object (E968.2)		
9650	Water Transport accident (E83X.0)		

## Additional Information

- Complete only if Possible Injury (E09\_04) is “Yes”
- ICD-9 Codes were retained over ICD-10 due to CMS’s continued use of ICD-9 in the EMS Condition Codes

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the traumatic cause of injury
- Allows data to describe the cause of a traumatic event

## Data Collector

- EMS personnel if Possible Injury (E09\_04) is answered Yes

## Other Associated Elements

**E00** Common Null Values

**E01\_01** Patient Care Report Number

## References in NHTSA Version 1

Essential Element 49 Cause of Injury

## References to Other Databases

- NFIRS 5.0 EMS Module; Title: Cause of Illness/Injury; The immediate cause or condition responsible for the injury or illness; Pick-List: Chemical Exposure = 10, Drug Poisoning = 11, Fall = 12, Aircraft Related = 13, Bite, Includes Animal Bites = 14, Bicycle Accident = 15, Building Collapse/Construction Accident = 16, Drowning = 17, Electrical Shock = 18, Cold = 19, Heat = 20, Explosives = 21, Fire and Flames = 22, Firearm = 23, Fireworks = 25, Lightning = 26, Machinery = 27, Mechanical Suffocation = 28, Motor Vehicle Accident = 29, Motor Vehicle Accident, Pedestrian = 30, Non-Traffic Vehicle (off road) Accident = 31, Physical Assault/Abuse = 32, Scalds/Other Thermal = 33, Smoke Inhalation = 34, Stabbing Assault = 35, Venomous Sting = 36, Water Transport = 37, Other Cause of Injury/Illness = 00, Unknown Cause of Injury/Illness = UU

## Section E10 Situation/ Trauma

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# MECHANISM OF INJURY

E10\_03

**Data Format** [combo] multiple-choice

## Definition

The mechanism of the event which caused the injury.

<b>XSD Data Type</b>	<i>xs:integer</i>	<b>XSD Domain (Simple Type)</b>	<i>MechanismOfInjury</i>
<b>Multiple Entry Configuration</b>	Yes	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	No		

## Field Values

<b>-25</b> Not Applicable	<b>-15</b> Not Reporting
<b>-20</b> Not Recorded	<b>2035</b> Blunt
<b>2040</b> Burn	<b>2045</b> Other
<b>2050</b> Penetrating	

## Additional Information

- Complete only if Possible Injury (E09\_04) is “Yes”

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Important component of an EMS Medical Record to identify issues of clinical care and agency performance and delivery
- Used to better define injury cause and describe injury patterns within and EMS community

## Data Collector

- EMS personnel if Possible Injury (E09\_04) is answered Yes

## Other Associated Elements

<b>E00</b>	Common Null Values	<b>E01_01</b>	Patient Care Report Number
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## Section E10 Situation/ Trauma

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# VEHICULAR INJURY INDICATORS

E10\_04

**Data Format** [combo] multiple-choice

## Definition

The kind of risk factor predictors associated with the vehicle involved in the incident

<b>XSD Data Type</b>	<i>xs:integer</i>	<b>XSD Domain (Simple Type)</b>	<i>VehicularInjuryIndicators</i>
<b>Multiple Entry Configuration</b>	Yes	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	No		

## Field Values

<b>-25</b> Not Applicable	<b>-15</b> Not Reporting
<b>-20</b> Not Recorded	<b>2055</b> Dash Deformity
<b>2060</b> DOA Same Vehicle	<b>2065</b> Ejection
<b>2070</b> Fire	<b>2075</b> Rollover/Roof Deformity
<b>2080</b> Side Post Deformity	<b>2085</b> Space Intrusion >1 foot
<b>2090</b> Steering Wheel Deformity	<b>2095</b> Windshield Spider/Star

## Additional Information

- Complete only if Possible Injury (E09\_04) is “Yes”

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Used to better define injury cause and describe injury patterns within and EMS community

## Data Collector

- EMS personnel if Possible Injury (E09\_04) is answered Yes and there is a vehicle involved

## Other Associated Elements

<b>E00</b>	Common Null Values	<b>E01_01</b>	Patient Care Report Number
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## Section E10 Situation/ Trauma

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# AREA OF THE VEHICLE IMPACTED BY THE COLLISION

E10\_05

Data Format [combo] multiple-choice

## Definition

The area or location of impact on the vehicle

<b>XSD Data Type</b>	<i>xs:integer</i>	<b>XSD Domain (Simple Type)</b>	<i>AreaOfVehicleImpact</i>
<b>Multiple Entry Configuration</b>	Yes	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	No		

## Field Values

-25	Not Applicable	-15	Not Reporting
-20	Not Recorded	2100	Center Front
2105	Center Rear	2110	Left Front
2115	Left Rear	2120	Left Side
2125	Right Front	2130	Right Rear
2135	Right Side	2140	Roll Over

## Additional Information

- Complete only if Possible Injury (E09\_04) is “Yes”

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Used to better define injury cause and describe injury patterns within and EMS community

## Data Collector

- EMS personnel if Possible Injury (E09\_04) is answered Yes and there is a vehicle involved

## Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
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## Section E10 Situation/ Trauma

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# SEAT ROW LOCATION OF PATIENT IN VEHICLE

E10\_06

**Data Format** [text]

## Definition

The seat row location of the patient in vehicle at the time of the crash with the front seat numbered as 1.

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *SeatRowLocation*

**Multiple Entry Configuration** No

**Accepts Null** No

**Required in XSD** No

**Minimum Constraint** 1

**Maximum Constraint** 15

XSD Structure: E10\_06 and E10\_07 are members of E10\_06\_0 Position of Patient Structure

## Field Values

- Relevant Value for Data Element & Patient Care
- If a value of 50 is passed, the location is designated "Cargo Area"
- MATRIS Runform field contains 1-50

## Additional Information

- Complete only if Possible Injury (E09\_04) is "Yes"
- Could be configured as a single choice combo box
- Numbered to take into account large vehicles such as buses or vans (1 = Front) or (Cargo Area = 50)

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Important component of an EMS Medical Record to identify issues of clinical care and agency performance and delivery
- Used to better define injury cause and describe injury patterns within and EMS community

## Data Collector

- EMS personnel if Possible Injury (E09\_04) is answered Yes and there is a vehicle involved

## Other Associated Elements

**E01\_01** Patient Care Report Number

**E10\_07** Position of Patient in the Seat of the Vehicle

## Section E10 Situation/ Trauma

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# USE OF OCCUPANT SAFETY EQUIPMENT

E10\_08

**Data Format** [combo] multiple-choice

## Definition

Safety equipment in use by the patient at the time of the injury

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *UseOfOccupantSafetyEquipment*

**Multiple Entry Configuration** Yes

**Accepts Null** Yes

**Required in XSD** No

## Field Values

-25 Not Applicable

-20 Not Recorded

2175 Eye Protection

2185 Lap Belt

2190 Other

2200 Protective Clothing

2210 Shoulder Belt

-15 Not Reporting

2170 Child Restraint

2180 Helmet Worn

2187 None

2195 Personal Floatation Device

2205 Protective Non-Clothing Gear

## Additional Information

- Complete only if Possible Injury (E09\_04) is “Yes”

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Important component of an EMS Medical Record to identify issues of clinical care and agency performance and delivery
- Used to better define injury cause and describe injury patterns within and EMS community

## Data Collector

- EMS personnel if Possible Injury (E09\_04) is answered Yes and there is a vehicle involved

## Other Associated Elements

**E00** Common Null Values

**E01\_01** Patient Care Report Number

## References in NHTSA Version 1

Essential Element 55 Safety Equipment

## References to Other Databases

- NFIRS 5.0 EMS Module; Title: Safety Equipment; Multiple Select Pick-List: Safety, Seat Belts =1, Child Safety Seat = 2, Airbag = 3, Helmet = 4, Protective Clothing = 5, Flotation Device = 6, None or No Safety Equipment = N, Other Safety Equipment Used = O, Undetermined Safety Equipment = U

## Section E10 Situation/ Trauma

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# AIRBAG DEPLOYMENT

E10\_09

**Data Format** [combo] multiple-choice

## Definition

Indication of Airbag deployment during the motor vehicle crash.

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *AirbagDeployment*

**Multiple Entry Configuration** Yes

**Accepts Null** Yes

**Required in XSD** No

## Field Values

-25 Not Applicable

-20 Not Recorded

2220 No Airbag Deployed

2230 Airbag Deployed Side

-15 Not Reporting

2215 No Airbag Present

2225 Airbag Deployed Front

2235 Airbag Deployed Other (knee, airbelt, etc.)

## Additional Information

- Complete only if Possible Injury (E09\_04) is “Yes”

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Important component of an EMS Medical Record to identify issues of clinical care and agency performance and delivery
- Used to better define injury cause and describe injury patterns within and EMS community

## Data Collector

- EMS personnel if Possible Injury (E09\_04) is answered Yes and there is a vehicle involved

## Other Associated Elements

E00 Common Null Values

E01\_01 Patient Care Report Number

## References in NHTSA Version 1

Essential Element 55 Safety Equipment

## References to Other Databases

- NFIRS 5.0 EMS Module; Title: Safety Equipment; Multiple Select Pick-List: Safety, Seat Belts = 1, Child Safety Seat = 2, Airbag = 3, Helmet = 4, Protective Clothing = 5, Flotation Device = 6, None or No Safety Equipment = N, Other Safety Equipment Used = O, Undetermined Safety Equipment = U

## Section E10 Situation/ Trauma

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)



# ***Situation/ CPR***

***Section E11 Situation/ CPR***

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# CARDIAC ARREST

**E11\_01**

**Data Format** [combo] single-choice

*National Element*

## Definition

Indication of the presence of a cardiac arrest at any time associated with the EMS event.

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *CardiacArrest*

**Multiple Entry Configuration** No

**Accepts Null** Yes

**Required in XSD** Yes

## Field Values

**-25** Not Applicable

**-15** Not Reporting

**-20** Not Recorded

**0** No

**2240** Yes, Prior to EMS Arrival

**2245** Yes, After EMS Arrival

## Additional Information

- If answered YES, all other data points in the Situation/CPR should be addressed

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the occurrence of a cardiac arrest
- Allows data to describe the number of cardiac arrests within the EMS patient population

## Data Collector

- EMS personnel

## Other Associated Elements

**E00** Common Null Values

**E01\_01** Patient Care Report Number

## References to Other Databases

- **NFIRS 5.0** EMS Module; Title: Cardiac Arrest; Pick-List: Pre-Arrival Arrest = 1, Post-Arrival Arrest = 2
- **UTSTEIN** Title: Confirmed Cardiac Arrests Considered for Resuscitation

## Section **E11** Situation/ CPR

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# CARDIAC ARREST ETIOLOGY

E11\_02

**Data Format** [combo] single-choice

*National Element*

## Definition

Indication of the etiology or cause of the cardiac arrest (classified as cardiac, non-cardiac, etc.)

<b>XSD Data Type</b>	<i>xs:integer</i>	<b>XSD Domain (Simple Type)</b>	<i>CardiacArrestEtiology</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	Yes		

## Field Values

-25	Not Applicable	-15	Not Reporting
-20	Not Recorded	2250	Presumed Cardiac
2255	Trauma	2260	Drowning
2265	Respiratory	2270	Electrocution
2275	Other		

## Additional Information

- Complete only if Cardiac Arrest (E11\_01) is “Yes”

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the occurrence of a cardiac arrest
- Allows data to describe the number of cardiac arrests within the EMS patient population

## Data Collector

- EMS personnel if Cardiac Arrest (E11\_01) is answered Yes

## Other Associated Elements

<b>E00</b>	Common Null Values	<b>E01_01</b>	Patient Care Report Number
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## References to Other Databases

- **UTSTEIN** Title: Cardiac Etiology; Presumed Cardiac = C, Trauma = T, Drowning = D, Respiratory = R, Other = O, Unknown = U

## Section E11 Situation/ CPR

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# RESUSCITATION ATTEMPTED

E11\_03

**Data Format** [combo] multiple-choice

*National Element*

## Definition

Indication of an attempt to resuscitate the patient who is in cardiac arrest (attempted, not attempted due to DNR, etc.)

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *ResuscitationAttempted*

**Multiple Entry Configuration** Yes

**Accepts Null** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-20 Not Recorded

2285 Attempted Ventilation

2290 Initiated Chest Compressions

2300 Not Attempted-Comfort Care or MOLST

-15 Not Reporting

2280 Attempted Defibrillation

2295 Not Attempted - Obvious Signs of Death

2305 Not Attempted-Signs of Circulation

## Additional Information

- Complete only if Cardiac Arrest (E11\_01) is “Yes”

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the type of resuscitation initiated during a cardiac arrest
- Allows data to describe the number of cardiac arrests within the EMS patient population which resulted in resuscitative efforts

## Data Collector

- EMS personnel if Cardiac Arrest (E11\_01) is answered Yes

## Other Associated Elements

**E00** Common Null Values

**E01\_01** Patient Care Report Number

## References to Other Databases

- **UTSTEIN** Title: Resuscitations Attempted; Attempted Defibrillation = D, Attempted Chest Compressions = C, Attempted Ventilation = V, Not Attempted-DNR Orders = R, Not Attempted-Considered Futile = F, Not Attempted-Signs of Circulation = A, Unknown = U, Not Record

# ARREST WITNESSED BY

E11\_04

**Data** [combo] single-choice

## Definition

Indication of who the cardiac arrest was witnessed by

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *ArrestWitnessedBy*

**Multiple Entry Configuration** No

**Accepts Null Values** Yes

**Required in XSD** No

## Field Values

-25 Not Applicable

-20 Not Recorded

2315 Witnessed by Lay Person

-15 Not Reporting

2310 Witnessed by Healthcare Provider

2320 Not Witnessed

## Additional Information

- Complete only if Cardiac Arrest (E11\_01) is “Yes”

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the Witnessed or Un-Witnessed Arrest which is a known key element associated with Cardiac Arrest Outcome
- Allows data to describe aid which was provided prior to EMS arrival
- Used as a Quality Management tool to evaluate Bystander and First Responder involvement

## Data Collector

- EMS personnel if Cardiac Arrest (E11\_01) is answered Yes

## Other Associated Elements

E00 Common Null Values

E01\_01 Patient Care Report Number

## References in NHTSA Version 1

Desirable Element 62 Witness of Cardiac Arrest

## References to Other Databases

- NFIRS 5.0 EMS Module; Title: Pre-Arrival Details; Pick-List: Witnessed = 1, Bystander CPR = 2
- UTSTEIN Title: Arrest Witnessed/Monitored; [combo] Lay Person = L, Healthcare Provider = H

## Section E11 Situation/ CPR

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# FIRST MONITORED RHYTHM OF THE PATIENT

E11\_05

**Data** [combo] single-choice

## Definition

Documentation of what the first monitored rhythm which was noted

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *FirstMonitoredRhythm*

**Multiple Entry Configuration** No

**Accepts Null Values** Yes

**Required in XSD** No

## Field Values

-25 Not Applicable

-20 Not Recorded

2330 Bradycardia

2340 Other

2350 Unknown AED Non-Shockable Rhythm

2360 Ventricular Fibrillation

-15 Not Reporting

2325 Asystole

2335 Normal Sinus Rhythm

2345 PEA

2355 Unknown AED Shockable Rhythm

2365 Ventricular Tachycardia

## Additional Information

- Complete only if Cardiac Arrest (E11\_01) is “Yes”

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the First Monitored Rhythm of a cardiac arrest
- Allows for evaluation of Cardiac Arrest data for Quality Improvement of patient care and agency response

## Data Collector

- EMS personnel if Cardiac Arrest (E11\_01) is answered Yes

## Other Associated Elements

**E00** Common Null Values

**E01\_01** Patient Care Report Number

## References to Other Databases

- **NFIRS 5.0** EMS Module; Title: Initial Arrest Rhythm; Pick-List: V-Fib//V-Tach = 1, Other = O, Undetermined = U
- **UTSTEIN** Title: First Monitored Rhythm Shockable (in Cardiac Arrest) and First Monitored Rhythm Non-Shockable; [combo] Ventricular Fibrillation, Ventricular Tachycardia, Unknown AED Shockable Rhythm, Asystole, PEA, Bradycardia, Other, Unknown AED Non-Shockable Rh

## Section E11 Situation/ CPR

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# ANY RETURN OF SPONTANEOUS CIRCULATION

E11\_06

**Data** [combo] single-choice

## Definition

Indication whether or not there was any return of spontaneous circulation at any time during the EMS event.

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *ReturnOfSpontaneousCirculation*

**Multiple Entry Configuration** No

**Accepts Null Values** Yes

**Required in XSD** No

## Field Values

-25 Not Applicable

-15 Not Reporting

-20 Not Recorded

2380 No

2370 Yes, Prior to ED Arrival Only

2375 Yes, Prior to ED Arrival and at the ED

## Additional Information

- Complete only if Cardiac Arrest (E11\_01) is “Yes”

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the Return of Spontaneous Circulation associated with a cardiac arrest
- Allows for evaluation of Cardiac Arrest data for Quality Improvement of patient care and agency response

## Data Collector

- EMS personnel if Cardiac Arrest (E11\_01) is answered Yes

## Other Associated Elements

E00 Common Null Values

E01\_01 Patient Care Report Number

## References in NHTSA Version 1

Desirable Element 64 Return of Spontaneous Circulation

## References to Other Databases

- UTSTEIN Title: Any Return of Spontaneous Circulation (ROSC); [combo] Yes = Y, No = No, U = Unknown

## Section E11 Situation/ CPR

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# REASON CPR DISCONTINUED

E11\_10

Data [combo] single-choice

## Definition

The reason that CPR or the resuscitation efforts were discontinued.

<b>XSD Data Type</b>	<i>xs:integer</i>	<b>XSD Domain (Simple Type)</b>	<i>ReasonCPRDiscontinued</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null Values</b>	Yes
<b>Required in XSD</b>	No		

## Field Values

- |   |  |
|---|--|
| -25 Not Applicable                          | -15 Not Reporting  |
| -20 Not Recorded                            | 2430 Comfort Care or MOLST                                 |
| 2435 Medical Control Order                  | 2440 Obvious Signs of Death                                |
| 2445 Protocol/Policy Requirements Completed | 2450 Return of Spontaneous Circulation (pulse or BP noted) |

## Additional Information

- Complete only if Cardiac Arrest (E11\_01) is “Yes”

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows for evaluation of Cardiac Arrest data for Quality Improvement of patient care and agency response

## Data Collector

- EMS personnel if Cardiac Arrest (E11\_01) is answered Yes

## Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
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## Section E11 Situation/ CPR

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)



# CARDIAC RHYTHM ON ARRIVAL AT DESTINATION

E11\_11

**Data** [combo] multiple-choice

## Definition

The patient's cardiac rhythm upon delivery or transfer to the destination

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *CardiacRhythmAtDestination*

**Multiple Entry Configuration** Yes

**Accepts Null Values** Yes

**Required in XSD** No

## Field Values

-25	Not Applicable	-15	Not Reporting
-20	Not Recorded	2455	12 Lead ECG-Anterior Ischemia
2460	12 Lead ECG-Inferior Ischemia	2465	12 Lead ECG-Lateral Ischemia
2470	Agonal/Idioventricular	2475	Artifact
2480	Asystole	2485	Atrial Fibrillation/Flutter
2490	AV Block-1st Degree	2495	AV Block-2nd Degree-Type 1
2500	AV Block-2nd Degree-Type 2	2505	AV Block-3rd Degree
2510	Junctional	2515	Left Bundle Branch Block
2520	Normal Sinus Rhythm	2525	Other
2530	Paced Rhythm	2535	PEA
2540	Premature Atrial Contractions	2545	Premature Ventricular Contractions
2550	Right Bundle Branch Block	2555	Sinus Arrhythmia
2560	Sinus Bradycardia	2565	Sinus Tachycardia
2570	Supraventricular Tachycardia	2575	Torsades De Points
2580	Unknown AED Non-Shockable Rhythm	2585	Unknown AED Shockable Rhythm
2590	Ventricular Fibrillation	2595	Ventricular Tachycardia

## Additional Information

- Complete only if Cardiac Arrest (E11\_01) is "Yes"
- This data point could be completed by documentation of the final rhythm in the Vital Signs Section (E14) with the appropriate time

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows for evaluation of Cardiac Arrest data for Quality Improvement of patient care and agency response

## Data Collector

- EMS personnel if Cardiac Arrest (E11\_01) is answered Yes

## Other Associated Elements

E00 Common Null Values

E01\_01 Patient Care Report Number

## References in NHTSA Version 1

Desirable Element 67 Rhythm at Destination

## Section E11 Situation/ CPR

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# ***Medical History***

***Section E12 Medical History***

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# BARRIERS TO PATIENT CARE

E12\_01

**Data Format** [combo] multiple-choice

*National Element*

## Definition

Indication of whether or not there were any patient specific barriers to serving the patient at the scene

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *BarriersToPatientCare*

**Multiple Entry Configuration** Yes

**Accepts Null** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-20 Not Recorded

2605 Hearing Impaired

2610 Language

2620 Physically Impaired

2630 Speech Impaired

2640 Unconscious

-15 Not Reporting

2600 Developmentally Impaired

2615 None

2625 Physically Restrained

2635 Unattended or Unsupervised (including minors)

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on any barriers to patient care
- Allows data to describe any barriers to care within the EMS agency which is important to many federal initiatives

## Data Collector

- EMS personnel

## Other Associated Elements

E00 Common Null Values

E01\_01 Patient Care Report Number

## References in NHTSA Version 1

Desirable Element 56 Factors Affecting EMS Delivery of Care

## References to Other Databases

- NFIRS 5.0 EMS Module; Title: Human Factors; Describes the human factors that contributed to the patient's injury; Pick-List: Asleep = 1, Unconscious = 2, Possibly Impaired by Alcohol = 3, Possibly Impaired by Other Drug or Chemical = 4, Possibly Mentally Disabled = 5, Physically Disabled = 6, Physically Restrained = 7, Unattended or Unsupervised Person, Included are too young to act = 8, None or No Human Factors = N

## Section E12 Medical History

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

MEDICATION ALLERGIES

E12\_08

Data [combo] multiple-choice

Definition

The patient’s medication allergies

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>MedicationAllergies</i>
<b>Multiple Entry Configuration</b>	Yes	<b>Accepts Null Values</b>	Yes
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	2
		<b>Maximum Constraint</b>	30

Field Values

- 25 Not Applicable

-20 Not Recorded
  - NKDA (No Known Drug Allergies)
- 15 Not Reporting
  - Relevant Value for Data Element & Patient Care

Additional Information

- A Drug List should be created to serve as a list box which can contain any generic or trade name of a drug approved by the FDA
- Alternatively, the drugs may be entered as a multiple entry text configuration

Uses

- Part of an EMS Medical Record

Data Collector

- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements

<b>E00</b>	Common Null Values	<b>E01_01</b>	Patient Care Report Number
<b>E06_01</b>	Last Name		

# MEDICAL/SURGICAL HISTORY

E12\_10

**Data** [combo or text] multiple-choice

## Definition

The patient’s pre-existing medical and surgery history of the patient

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>MedicalSurgicalHistory</i>
<b>Multiple Entry Configuration</b>	Yes	<b>Accepts Null Values</b>	Yes
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	2
		<b>Maximum Constraint</b>	30

## Field Values

- 25 Not Applicable
  - 20 Not Recorded
  - 15 Not Reporting
    - Relevant Value for Data Element & Patient Care
- A list is available from OEMS

## Additional Information

- A Medical/Surgical History list should be created to serve as a listbox which can contain any ICD-9 coded diagnosis or procedure
- The field should store the values of the ICD-9 codes since CMS has not adopted ICD-10 level codes at the time of this document

## Uses

- Part of an EMS Medical Record

## Data Collector

- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

## Other Associated Elements

<b>E00</b>	Common Null Values	<b>E01_01</b>	Patient Care Report Number
<b>E06_01</b>	Last Name		

## References in NHTSA Version 1

Essential Element 51 Pre-Existing Condition

## Section E12 Medical History

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# CURRENT MEDICATIONS

E12\_14

**Data** [combo or text] multiple-choice

## Definition

The medications the patient currently takes

**XSD Data Type** *xs:string* **XSD Domain (Simple Type)** *CurrentMedicationName*

**Multiple Entry Configuration** Yes, via structure **Accepts Null Values**No

**Required in XSD** No **Minimum Constraint** 2 **Maximum Constraint** 30

XSD Structure: (1) E12\_14, E12\_15, E12\_16, and E12\_17 are all members of E12\_14\_0 Current Medications Structure. (2) E12\_15 and E12\_16 are members of E12\_15\_0 Current Medication Dose Structure

## Field Values

- Relevant Value for Data Element & Patient Care  
A list is available from OEMS

## Additional Information

- A Drug List should be created to serve as a listbox which can contain any generic or trade name of a drug approved by the FDA
- Alternatively, the drugs may be entered as a multiple entry text configuration
- The Drug List should also include “None”

## Uses

- Part of an EMS Medical Record

## Data Collector

- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

## Other Associated Elements

<b>E01_01</b> Patient Care Report Number	<b>E12_15</b> Current Medication Dose
<b>E12_16</b> Current Medication Dosage Unit	<b>E12_17</b> Current Medication Administration Route

## Section E12 Medical History

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# ALCOHOL/DRUG USE INDICATORS

E12\_19

**Data Format** [combo] multiple-choice

*National Element*

## Definition

Indicators for the potential use of Alcohol or Drugs by the patient.

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *AlcoholDrugUseIndicators*

**Multiple Entry Configuration** Yes

**Accepts Null** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-20 Not Recorded

2990 Patient Admits to Alcohol Use

3000 Alcohol and/or Drug Paraphernalia at Scene

-15 Not Reporting

2985 Smell of Alcoholic Beverage on Breath/About Person

2995 Patient Admits to Drug Use

3001 No Apparent Alcohol/Drug Use

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on alcohol/drug use indicators
- Allows data to describe Alcohol and Drug use within the EMS patient population

## Data Collector

- EMS personnel

## Other Associated Elements

E00 Common Null Values

E01\_01 Patient Care Report Number

## References in NHTSA Version 1

Essential Element 57 Suspected Alcohol/Drug Use

## References to Other Databases

- NFIRS 5.0 EMS Module; Title: Human Factors; Describes the human factors that contributed to the patient's injury; Pick-List: Asleep = 1, Unconscious = 2, Possibly Impaired by Alcohol = 3, Possibly Impaired by Other Drug or Chemical = 4, Possibly Mentally Disabled = 5, Physically Disabled = 6, Physically Restrained = 7, Unattended or Unsupervised Person, Included are too young to act = 8, None or No Human Factors = N

## Section E12 Medical History

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# ***Assessment/ Vital Signs***

***Section E14 Assessment/ Vital Signs***

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*



# DATE/TIME VITAL SIGNS TAKEN

**E14\_01**

**Data Format** [date/time]

## Definition

Date/Time Vital Signs Taken

**XSD Data Type** *xs:dateTime*

**XSD Domain (Simple Type)** *DateTime*

**Multiple Entry Configuration** Yes, via structure

**Accepts Null**

Yes, but null value is blank or empty

**Required in XSD** No

**Minimum Constraint** 1,990

**Maximum Constraint** 2,030

XSD Structure: Each element in section E14 is associated with a E14\_01 Date/Time

## Field Values

- Relevant Value for Data Element & Patient Care

## Additional Information

- If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used
- Multiple Entry Configuration to allow multiple sets of Vital Signs

## Uses

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel or may be provided electronically through a medical device

## Other Associated Elements

**E01\_01** Patient Care Report Number

## References to Other Databases

- **NFIRS 5.0** EMS Module; Title: Patient Pulse; Presence of a Pulse at the time of patient transfer to another service.; Pick-List: Pulse on Transfer = 1, No; Pulse of Transfer = 2

## Section **E14** **Assessment/ Vital Signs**

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# CARDIAC RHYTHM

E14\_03

**Data** [combo] multiple-choice

## Definition

The initial cardiac rhythm of the patient as interpreted by EMS personnel

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *CardiacRhythm*

**Multiple Entry Configuration**

(1) Yes, via structure. (2)

**Accepts Null Values** Yes

Yes for each E14\_01

Date/Time

**Required in XSD** No

XSD Structure: Each element in section E14 is associated with a E14\_01 Date/Time

## Field Values

-25	Not Applicable	-15	Not Reporting
-20	Not Recorded	3005	12 Lead ECG-Anterior Ischemia
3010	12 Lead ECG-Inferior Ischemia	3015	12 Lead ECG-Lateral Ischemia
3020	Agonal/Idioventricular	3025	Artifact
3030	Asystole	3035	Atrial Fibrillation/Flutter
3040	AV Block-1st Degree	3045	AV Block-2nd Degree-Type 1
3050	AV Block-2nd Degree-Type 2	3055	AV Block-3rd Degree
3060	Junctional	3065	Left Bundle Branch Block
3070	Normal Sinus Rhythm	3075	Other
3080	Paced Rhythm	3085	PEA
3090	Premature Atrial Contractions	3095	Premature Ventricular Contractions
3100	Right Bundle Branch Block	3105	Sinus Arrhythmia
3110	Sinus Bradycardia	3115	Sinus Tachycardia
3120	Supraventricular Tachycardia	3125	Torsades De Points
3130	Unknown AED Non-Shockable Rhythm	3135	Unknown AED Shockable Rhythm
3140	Ventricular Fibrillation	3145	Ventricular Tachycardia

## Uses

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel or may be provided electronically through a medical device

## Other Associated Elements

E00 Common Null Values

E01\_01 Patient Care Report Number

E14\_01 Date/Time Vital Signs Taken

## References in NHTSA Version 1

Desirable Element 66 Initial Cardiac Rhythm

## Section E14 Assessment/ Vital Signs

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# SBP (SYSTOLIC BLOOD PRESSURE)

E14\_04

Data Format [number]

## Definition

The patient's systolic blood pressure

<b>XSD Data Type</b>	<i>xs:integer</i>	<b>XSD Domain (Simple Type)</b>	<i>SBP</i>
<b>Multiple Entry Configuration</b>	Yes, via structure	<b>Accepts Null</b>	Yes, but null value is blank or empty
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	0
		<b>Maximum Constraint</b>	400

XSD Structure: (1) Each element in section E14 is associated with a E14\_01 Date/Time. (2) E14\_04, E14\_05, and E14\_06 are all members of E14\_04\_0 Blood Pressure Structure

## Field Values

- Relevant Value for Data Element & Patient Care

## Additional Information

- Could be collected from Device Systolic Blood Pressure (E21\_14)

## Uses

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel or may be provided electronically through a medical device

## Other Associated Elements

<b>E01_01</b>	Patient Care Report Number	<b>E14_01</b>	Date/Time Vital Signs Taken
<b>E14_05</b>	DBP (Diastolic Blood Pressure)	<b>E14_06</b>	Method of Blood Pressure Measurement

## References in NHTSA Version 1

Essential Element 70 Systolic Blood Pressure

## Section E14 Assessment/ Vital Signs

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# DBP (DIASTOLIC BLOOD PRESSURE)

E14\_05

Data Format [number]

## Definition

The patient's diastolic blood pressure

<b>XSD Data Type</b>	<i>xs:integer</i>	<b>XSD Domain (Simple Type)</b>	<i>DBP</i>
<b>Multiple Entry Configuration</b>	Yes, via structure	<b>Accepts Null</b>	Yes, but null value is blank or empty
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	0
		<b>Maximum Constraint</b>	300

XSD Structure: (1) Each element in section E14 is associated with a E14\_01 Date/Time. (2) E14\_04, E14\_05, and E14\_06 are all members of E14\_04\_0 Blood Pressure Structure

## Field Values

- Relevant Value for Data Element & Patient Care

## Additional Information

- Could be collected from Device Diastolic Blood Pressure (E21\_15)

## Uses

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel or may be provided electronically through a medical device

## Other Associated Elements

<b>E01_01</b>	Patient Care Report Number	<b>E14_01</b>	Date/Time Vital Signs Taken
<b>E14_04</b>	SBP (Systolic Blood Pressure)	<b>E14_06</b>	Method of Blood Pressure Measurement

## References in NHTSA Version 1

Essential Element 71 Diastolic Blood Pressure

## Section E14 Assessment/ Vital Signs

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# PULSE RATE

E14\_07

**Data Format** [number]

## Definition

The patient's pulse rate, palpated or auscultated, expressed as a number per minute

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *PulseRate*

**Multiple Entry Configuration**

Yes, via structure

**Accepts Null**

Yes, but null value is blank or empty

**Required in XSD** No

**Minimum Constraint** 0

**Maximum Constraint** 500

XSD Structure: Each element in section E14 is associated with a E14\_01 Date/Time

## Field Values

- Relevant Value for Data Element & Patient Care

## Additional Information

- Could be collected from Device Pulse Rate (E21\_13)

## Uses

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel or may be provided electronically through a medical device

## Other Associated Elements

**E01\_01** Patient Care Report Number

**E14\_01** Date/Time Vital Signs Taken

## References in NHTSA Version 1

Essential Element 65 Pulse Rate

## References to Other Databases

- NFIRS 5.0 EMS Module; Title: Patient Pulse; Presence of a Pulse at the time of patient transfer to another service.; Pick-List: Pulse on Transfer = 1, No; Pulse of Transfer = 2

## Section E14 Assessment/ Vital Signs

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# PULSE OXIMETRY

E14\_09

Data Format [number]

## Definition

The patient's oxygen saturation

<b>XSD Data Type</b>	<i>xs:integer</i>	<b>XSD Domain (Simple Type)</b>	<i>PulseOximetry</i>
<b>Multiple Entry Configuration</b>	Yes, via structure	<b>Accepts Null</b>	Yes, but null value is blank or empty
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	0
		<b>Maximum Constraint</b>	100

XSD Structure: Each element in section E14 is associated with a E14\_01 Date/Time

## Field Values

- Relevant Value for Data Element & Patient Care

## Additional Information

- Could be collected from Device Pulse Oximetry (E21\_17)

## Uses

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel or may be provided electronically through a medical device

## Other Associated Elements

E01_01	Patient Care Report Number	E14_01	Date/Time Vital Signs Taken
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## Section E14 Assessment/ Vital Signs

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# RESPIRATORY RATE

E14\_11

**Data Format** [number]

## Definition

The patient's respiratory rate expressed as a number per minute

**XSD Data Type** *xs:integer*      **XSD Domain (Simple Type)** *RespiratoryRate*  
**Multiple Entry Configuration**    Yes, via structure      **Accepts Null**      Yes, but null value is blank or empty  
**Required in XSD** No      **Minimum Constraint** 0      **Maximum Constraint** 100  
XSD Structure: Each element in section E14 is associated with a E14\_01 Date/Time

## Field Values

- Relevant Value for Data Element & Patient Care

## Additional Information

- Could be collected from Device Respiratory Rate (E21\_16)

## Uses

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel or may be provided electronically through a medical device

## Other Associated Elements

E01\_01 Patient Care Report Number      E14\_01 Date/Time Vital Signs Taken

## References in NHTSA Version 1

Essential    Element 68      Respiratory Rate

### Section E14 Assessment/ Vital Signs

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# GLASGOW COMA SCORE-EYE

E14\_15

**Data Format** [number]

## Definition

The patient's Glasgow Coma Score Eye opening

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *GCSEye*

**Multiple Entry Configuration** Yes, via structure

**Accepts Null**

Yes, but null value is blank or empty

**Required in XSD** No

**Minimum Constraint** 1

**Maximum Constraint** 4

XSD Structure: (1) Each element in section E14 is associated with a E14\_01 Date/Time. (2) E14\_15, E14\_16, E14\_17, and E14\_18 are all members of E14\_15\_0 GCS Score Structure

## Field Values

- For All Age Groups: 1 = Does Not Open Eyes
- For All Age Groups: 2 = Opens Eyes to painful stimulation
- For All Age Groups: 3 = Opens Eyes to verbal stimulation
- For All Age Groups: 4 = Opens Eyes spontaneously

## Additional Information

- Can be configured as a single choice list box

## Uses

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel

## Other Associated Elements

**E01\_01** Patient Care Report Number

**E14\_01** Date/Time Vital Signs Taken

**E14\_16** Glasgow Coma Score-Verbal

**E14\_17** Glasgow Coma Score-Motor

**E14\_18** Glasgow Coma Score-Qualifier

**E14\_19** Total Glasgow Coma Score

## References in NHTSA Version 1

Essential Element 73 Glasgow Eye Opening Component

## Section E14 Assessment/ Vital Signs

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)



# GLASGOW COMA SCORE-VERBAL

E14\_16

**Data Format** [number]

## Definition

The patient's Glasgow Coma Score Verbal

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *GCSVerbal*

**Multiple Entry Configuration** Yes, via structure

**Accepts Null** Yes, but null value is blank or empty

**Required in XSD** No

**Minimum Constraint** 1

**Maximum Constraint** 5

XSD Structure: (1) Each element in section E14 is associated with a E14\_01 Date/Time. (2) E14\_15, E14\_16, E14\_17, and E14\_18 are all members of E14\_15\_0 GCS Score Structure

## Field Values

- Patients 0-23 months: 1 = None
- Patients 0-23 months: 2 = Persistent cry
- Patients 0-23 months: 3 = Inappropriate cry
- Patients 0-23 months: 4 = Cries, inconsolable
- Patients 0-23 months: 5 = Smiles, coos, cries appropriately
- Patients >5 years: 1 = None
- Patients >5 years: 2 = Non-specified sounds
- Patients >5 years: 3 = Inappropriate words
- Patients >5 years: 4 = Confused conversation or speech
- Patients >5 years: 5 = Oriented and appropriate speech
- Patients 2-5 years: 1 = None
- Patients 2-5 years: 2 = Grunts
- Patients 2-5 years: 3 = Cries and/or screams
- Patients 2-5 years: 4 = Inappropriate words
- Patients 2-5 years: 5 = Appropriate words

## Additional Information

- Can be configured as a single choice list box

## Uses

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel

## Other Associated Elements

**E01\_01** Patient Care Report Number

**E14\_01** Date/Time Vital Signs Taken

**E14\_15** Glasgow Coma Score-Eye

**E14\_17** Glasgow Coma Score-Motor

**E14\_18** Glasgow Coma Score-Qualifier

**E14\_19** Total Glasgow Coma Score

## References in NHTSA Version 1

Essential Element 74a Glasgow Verbal Component For patients >5 years

Essential Element 74b Glasgow Verbal Component For patients 2-5 years

Essential Element 74c Glasgow Verbal Component for patients 0-23 months

## Section E14 Assessment/ Vital Signs

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# GLASGOW COMA SCORE-MOTOR

E14\_17

**Data Format** [number]

## Definition

The patient's Glasgow Coma Score Motor

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *GCSMotor*

**Multiple Entry Configuration** Yes, via structure

**Accepts Null** Yes, but null value is blank or empty

**Required in XSD** No

**Minimum Constraint** 1

**Maximum Constraint** 6

XSD Structure: (1) Each element in section E14 is associated with a E14\_01 Date/Time. (2) E14\_15, E14\_16, E14\_17, and E14\_18 are all members of E14\_15\_0 GCS Score Structure

## Field Values

- Patients up to 5 years: 1 = None
- Patients up to 5 years: 2 = Extensor posturing in response to painful stimulation
- Patients up to 5 years: 3 = Flexor posturing in response to painful stimulation
- Patients up to 5 years: 4 = General withdrawal in response to painful stimulation
- Patients up to 5 years: 5 = Localization of painful stimulation
- Patients up to 5 years: 6 = Spontaneous
- Patients >5 years: 1 = None
- Patients >5 years: 2 = Extensor posturing in response to painful stimulation
- Patients >5 years: 3 = Flexor posturing in response to painful stimulation
- Patients >5 years: 4 = General withdrawal in response to painful stimulation
- Patients >5 years: 5 = Localization of painful stimulation
- Patients >5 years: 6 = Obeys commands with appropriate motor responses

## Additional Information

- Can be configured as a single choice list box

## Uses

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel

## Other Associated Elements

<b>E01_01</b>	Patient Care Report Number	<b>E14_01</b>	Date/Time Vital Signs Taken
<b>E14_15</b>	Glasgow Coma Score-Eye	<b>E14_16</b>	Glasgow Coma Score-Verbal
<b>E14_18</b>	Glasgow Coma Score-Qualifier	<b>E14_19</b>	Total Glasgow Coma Score

## References in NHTSA Version 1

- Essential Element 75a Glasgow Motor Component For patients >5 years  
Essential Element 75b Glasgow Motor Component For patients up to 5 years

## Section E14 Assessment/ Vital Signs

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# GLASGOW COMA SCORE-QUALIFIER

E14\_18

Data Format [combo] single-choice

## Definition

Documentation of factors which make the GCS score more meaningful.

**XSD Data Type** *xs:integer* **XSD Domain (Simple Type)** *GCSQualifier*  
**Multiple Entry Configuration** Yes, via structure **Accepts Null** Yes

**Required in XSD** No

XSD Structure: (1) Each element in section E14 is associated with a E14\_01 Date/Time. (2) E14\_15, E14\_16, E14\_17, and E14\_18 are all members of E14\_15\_0 GCS Score Structure

## Field Values

- 25 Not Applicable
- 15 Not Reporting
- 20 Not Recorded
- 3210 Initial GCS has legitimate values without interventions such as intubation and sedation
- 3215 Patient Chemically Sedated
- 3220 Patient Intubated
- 3225 Patient Intubated and Chemically Paralyzed

## Additional Information

- Can be configured as a single choice list box

## Uses

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel

## Other Associated Elements

- |        |                             |        |                            |
|--------|-----------------------------|--------|----------------------------|
| E00    | Common Null Values          | E01_01 | Patient Care Report Number |
| E14_01 | Date/Time Vital Signs Taken | E14_15 | Glasgow Coma Score-Eye     |
| E14_16 | Glasgow Coma Score-Verbal   | E14_17 | Glasgow Coma Score-Motor   |
| E14_19 | Total Glasgow Coma Score    |        |                            |

## Section E14 Assessment/ Vital Signs

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# TOTAL GLASGOW COMA SCORE

E14\_19

Data Format [number]

## Definition

The patient's total Glasgow Coma Score

**XSD Data Type** *xs:integer*      **XSD Domain (Simple Type)** *TotalGCS*  
**Multiple Entry Configuration**    Yes, via structure      **Accepts Null**      Yes, but null value is blank or empty  
**Required in XSD** No      **Minimum Constraint** 1      **Maximum Constraint** 15  
XSD Structure: Each element in section E14 is associated with a E14\_01 Date/Time

## Field Values

- Relevant Value for Data Element & Patient Care

## Additional Information

- Calculated from Glasgow Coma Score-Eye (E14\_15), Glasgow Coma Score-Verbal (E14\_16), and Glasgow Coma Score-Motor (E14\_17)

## Uses

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel but could be auto-generated based on the information entered into an electronic patient care report

## Other Associated Elements

<b>E01_01</b>	Patient Care Report Number	<b>E14_01</b>	Date/Time Vital Signs Taken
<b>E14_15</b>	Glasgow Coma Score-Eye	<b>E14_16</b>	Glasgow Coma Score-Verbal
<b>E14_17</b>	Glasgow Coma Score-Motor	<b>E14_18</b>	Glasgow Coma Score-Qualifier

## References in NHTSA Version 1

Desirable    Element 76      Glasgow Coma Score (Total)

## Section    E14 Assessment/ Vital Signs

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

LEVEL OF RESPONSIVENESS

E14\_22

Data Format [combo] single-choice

Definition

The patients level of responsiveness

XSD Data Type *xs:integer* XSD Domain (Simple Type) *LevelOfResponsiveness*  
Multiple Entry Configuration Yes, via structure Accepts Null Yes  
Required in XSD No

XSD Structure: Each element in section E14 is associated with a E14\_01 Date/Time

Field Values

- 25 Not Applicable
- 20 Not Recorded
- 3260 Verbal
- 3270 Unresponsive
- 15 Not Reporting
- 3255 Alert
- 3265 Painful

Uses

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector

- EMS personnel

Other Associated Elements

- E00 Common Null Values
- E14\_01 Date/Time Vital Signs Taken
- E01\_01 Patient Care Report Number

# PAIN SCALE

E14\_23

Data Format [number]

## Definition

The patient’s indication of pain from a scale of 0 –10.

<b>XSD Data Type</b>	<i>xs:integer</i>	<b>XSD Domain (Simple)</b>	<i>PainScale</i>
<b>Multiple Entry Configuration</b>	Yes, via structure	<b>Accepts Null Values</b>	Yes, but null value is blank or empty
<b>Required in</b>	No	<b>Minimum Constraint</b>	0
		<b>Maximum Constraint</b>	10

XSD Structure: Each element is section E14 is associated with a E14\_01 Date/Time

## Field Values

- Relevant Value for Data Element & Patient Care

## Additional Information

- Number from 0 to 10

## Uses

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS agency

## Other Associated Elements

<b>E01_01</b>	Patient Care Report Number	<b>E14_01</b>	Date/Time Vital Signs Taken
<b>Section</b>	<b>E14</b>	<b>Assessment/ Vital Signs</b>	

STROKE SCALE

E14\_24

Data Format [combo] single-choice

Definition

The patient’s Los Angeles or Cincinnati Stroke Scale Results

XSD Data Type *xs:integer* XSD Domain (Simple Type) *StrokeScale*  
Multiple Entry Configuration Yes, via structure Accepts Null Yes  
Required in XSD No

XSD Structure: Each element in section E14 is associated with a E14\_01 Date/Time

Field Values

-25 Not Applicable -15 Not Reporting  
-20 Not Recorded 3275 Massachusetts Stroke Scale Negative  
3280 Massachusetts Stroke Scale Non-conclusive 3285 Massachusetts Stroke Scale Positive

NEMSIS Values Not Approved for Use by OEMS

3290 LA Stroke Scale Negative 3295 LA Stroke Scale Non-conclusive  
3300 LA Stroke Scale Positive

Uses

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values E01\_01 Patient Care Report Number  
E14\_01 Date/Time Vital Signs Taken

# REVISED TRAUMA SCORE

E14\_27

**Data Format** [number]

## Definition

The patient's Revised Trauma Score

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *RTS*

**Multiple Entry Configuration**

Yes, via structure

**Accepts Null**

Yes, but null value is blank or empty

**Required in XSD** No

**Minimum Constraint** 0

**Maximum Constraint** 12

XSD Structure: Each element in section E14 is associated with a E14\_01 Date/Time

## Field Values

- Relevant Value for Data Element & Patient Care

## Additional Information

- Calculated based on 3 components
- Can be auto-calculated from Respiratory Rate (E14\_11), Systolic Blood Pressure (E14\_04), and Total GCS (E14\_19), if all three components are documented at the same Time (E14\_01)
- Neurological Component: 4 = Glasgow coma score 13 - 15, 3 = Glasgow coma score 9 - 12, 2 = Glasgow coma score 6 - 8, 1 = Glasgow coma score 4 - 5, 0 = Glasgow coma score 3
- Respiratory Rate Component: 4 = 10 - 29 per minute, 3 = >29 per minute, 2 = 6 - 9 per minute, 1 = 1 - 5 per minute, 0 = None spontaneous
- Systolic Blood Pressure Component: 4 = >89 mm Hg, 3 = 76 - 89 mm Hg, 2 = 50 - 75 mm Hg, 1 = 1 - 49 mm Hg, 0 = No pulse

## Uses

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel but could be auto-generated based on the information entered into an electronic patient care report

## Other Associated Elements

**E01\_01** Patient Care Report Number

**E14\_01** Date/Time Vital Signs Taken

## References in NHTSA Version 1

Desirable Element 77 Revised Trauma Score

## Section E14 Assessment/ Vital Signs

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)



# ***Intervention/ Medication***

# DATE/TIME MEDICATION ADMINISTERED

E18\_01

Data Format [date/time]

## Definition

The date/time medication administered to the patient

<b>XSD Data Type</b>	<i>xs:dateTime</i>	<b>XSD Domain (Simple Type)</b>	<i>DateTime</i>
<b>Multiple Entry Configuration</b>	Yes, via structure	<b>Accepts Null</b>	Yes, but null value is blank or empty
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	1,990
		<b>Maximum Constraint</b>	2,030
XSD Structure: All data elements section E18 are members of the E18 Medication Structure			

## Field Values

## Additional Information

- If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used
- This is a multiple entry configuration which will allow multiple medication administrations to be documented

## Uses

- Part of an EMS Medical Record
- Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel

## Other Associated Elements

E01_01 Patient Care Report Number	E18_02 Medication Administered Prior to this Units
E18_03 Medication Given	E18_04 Medication Administered Route
E18_05 Medication Dosage	E18_06 Medication Dosage Units
E18_07 Response to Medication	E18_08 Medication Complication
E18_09 Medication Crew Member ID	E18_10 Medication Authorization
E18_11 Medication Authorizing Physician	

## Section E18 Intervention/ Medication

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# MEDICATION GIVEN

E18\_03

**Data** [combo] single-choice

*National Element*

## Definition

The medication given to the patient

**XSD Data Type** *xs:string*

**XSD Domain (Simple Type)** *MedicationsGiven*

**Multiple Entry Configuration** Yes, via structure

**Accepts Null Values** Yes

**Required in XSD** Yes

**Minimum Constraint** 2

**Maximum Constraint** 30

XSD Structure: All data elements section E18 are members of the E18 Medication Structure

## Field Values

-25 Not Applicable

-15 Not Reporting

-20 Not Recorded

- Relevant Value for Data Element & Patient Care

## Additional Information

- List created from Medications (D04\_06)

## Uses

- Allows data to be sorted based on the medical treatment
- Allows data to describe the medications administered by EMS
- Part of an EMS Medical Record
- Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel

## Other Associated Elements

**E00** Common Null Values

**E18\_01** Date/Time Medication Administered

**E18\_04** Medication Administered Route

**E18\_06** Medication Dosage Units

**E18\_08** Medication Complication

**E18\_10** Medication Authorization

**E01\_01** Patient Care Report Number

**E18\_02** Medication Administered Prior to this Units  
EMS Care

**E18\_05** Medication Dosage

**E18\_07** Response to Medication

**E18\_09** Medication Crew Member ID

**E18\_11** Medication Authorizing Physician

## References in NHTSA Version 1

Essential Element 80 Medication Name

## References to Other Databases

- NFIRS 5.0 EMS Module, Title: Procedures Used, Multi Select List: Airway Insertion = 01, Anti-Shock Trousers = 02, Assisted Ventilation = 03, Bleeding Control = 04, Burn Care = 05, Cardiac Pacing = 06, Cardioversion (defib), Manual = 07, Chest/Abdominal Thrust = 08, CPR = 09, Cricothyroidotomy = 10, Defibrillation by AED = 11, EKG Monitoring = 12, Extrication = 13, Intubation (EGTA) = 14, Intubation (ET) = 15, IO/IV Therapy = 16, Medications Therapy = 17, Oxygen Therapy = 18, Obstetrical Care/Delivery = 19, Pre-Arrival Instruction = 20, Restrained Patient = 21, Spinal Immobilization = 22, Splinted Extremities = 23, Suction/Aspirate = 24, Other Procedure = 00, No Treatment = NN

## Section E18 Intervention/ Medication

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# MEDICATION COMPLICATION

E18\_08

**Data Format** [combo] multiple-choice

*National Element*

## Definition

Any complication (abnormal effect on the patient) associated with the administration of the medication to the patient by EMS

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *MedicationComplication*

**Multiple Entry Configuration**

(1) Yes, via structure. (2) Yes  
for each E14\_01 Date/Time

**Accepts Null**

Yes

**Required in XSD** Yes

XSD Structure: All data elements section E18 are members of the E18 Medication Structure

## Field Values

-25	Not Applicable	-15	Not Reporting
-20	Not Recorded	4390	None
4395	Altered Mental Status		
4400	Apnea	4405	Bleeding
4410	Bradycardia	4415	Diarrhea
4420	Extravasation	4425	Hypertension
4430	Hyperthermia	4435	Hypotension
4440	Hypoxia	4445	Injury
4450	Itching/Urticaria	4455	Nausea
4460	Other	4465	Respiratory Distress
4470	Tachycardia	4475	Vomiting

## Uses

- Allows data to be sorted based on medication complication
- Allows data to describe medication complications which occur as a result of EMS treatment
- Part of an EMS Medical Record
- Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel

## Other Associated Elements

<b>E00</b>	Common Null Values	<b>E01_01</b>	Patient Care Report Number
<b>E18_01</b>	Date/Time Medication Administered	<b>E18_02</b>	Medication Administered Prior to this Units EMS Care
<b>E18_03</b>	Medication Given	<b>E18_04</b>	Medication Administered Route
<b>E18_05</b>	Medication Dosage	<b>E18_06</b>	Medication Dosage Units
<b>E18_07</b>	Response to Medication	<b>E18_09</b>	Medication Crew Member ID
<b>E18_10</b>	Medication Authorization	<b>E18_11</b>	Medication Authorizing Physician

## Section E18 Intervention/ Medication

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# ***Intervention/ Procedure***

***Section E19 Intervention/ Procedure***

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# DATE/TIME PROCEDURE PERFORMED SUCCESSFULLY

E19\_01

**Data Format** [date/time]

## Definition

The date and time the procedure was performed on the patient

**XSD Data Type** *xs:dateTime*

**XSD Domain (Simple Type)** *DateTime*

**Multiple Entry Configuration** Yes, via structure

**Accepts Null** Yes, but null value is blank or empty

**Required in XSD** No

**Minimum Constraint** 1,990 **Maximum Constraint** 2,030

XSD Structure: Data Elements E19\_01 through E19\_11 are all members of E19\_01\_0 Procedure Structure

## Field Values

## Additional Information

- If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used
- This is a multiple entry configuration which will allow for multiple procedures to be documented

## Uses

- Part of an EMS Medical Record
- Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel

## Other Associated Elements

**E01\_01** Patient Care Report Number

**E19\_03** Procedure

**E19\_05** Number of Procedure Attempts

**E19\_07** Procedure Complication

**E19\_09** Procedure Crew Members ID

**E19\_11** Procedure Authorizing Physician

**E19\_13** Tube Confirmation Placement

**E19\_02** Procedure Performed Prior to this Units EMS Care

**E19\_04** Size of Procedure Equipment

**E19\_06** Procedure Successful

**E19\_08** Response to Procedure

**E19\_10** Procedure Authorization

**E19\_12** Successful IV Site

**E19\_14** Destination Confirmation of Tube

## Section E19 Intervention/ Procedure

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# PROCEDURE

E19\_03

**Data Format** [combo] single-choice

*National Element*

## Definition

The procedure performed on the patient.

**XSD Data Type** *xs:decimal*

**XSD Domain (Simple Type)** *Procedure*

**Multiple Entry Configuration**

Yes, via structure

**Accepts Null**

Yes

**Required in XSD** Yes

**Minimum Constraint** 0

**Maximum Constraint** 1,000

XSD Structure: Data Elements E19\_01 through E19\_11 are all members of E19\_01\_0 Procedure Structure

## Field Values

-25 Not Applicable

-15 Not Reporting

-20 Not Recorded

• Relevant Value for Data Element & Patient Care

## Additional Information

- List created from Procedures (D04\_04)

## Uses

- Allows data to be sorted based on the medical treatment
- Allows data to describe the procedures which are performed by EMS
- Part of an EMS Medical Record
- Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel

## Other Associated Elements

**E00** Common Null Values

**E19\_01** Date/Time Procedure Performed Successfully

**E01\_01** Patient Care Report Number

**E19\_02** Procedure Performed Prior to this Units EMS Care

**E19\_04** Size of Procedure Equipment

**E19\_06** Procedure Successful

**E19\_08** Response to Procedure

**E19\_10** Procedure Authorization

**E19\_05** Number of Procedure Attempts

**E19\_07** Procedure Complication

**E19\_09** Procedure Crew Members ID

**E19\_11** Procedure Authorizing Physician

## References in NHTSA Version 1

Desirable Element 58 Time of First CPR

Desirable Element 63 Time of First Defibrillatory Shock

## References to Other Databases

- **NFIRS 5.0** EMS Module, Title: Procedures Used, Multi Select List: Airway Insertion = 01, Anti-Shock Trousers = 02, Assisted Ventilation = 03, Bleeding Control = 04, Burn Care = 05, Cardiac Pacing = 06, Cardioversion (defib), Manual = 07, Chest/Abdominal Thrust = 08, CPR = 09, Cricothyroidotomy = 10, Defibrillation by AED = 11, EKG Monitoring = 12, Extrication = 13, Intubation (EGTA) = 14, Intubation (ET) = 15, IO/IV Therapy = 16, Medications Therapy = 17, Oxygen Therapy = 18, Obstetrical Care/Delivery = 19, Pre-Arrival Instruction = 20, Restrained Patient = 21, Spinal Immobilization = 22, Splinted Extremities = 23, Suction/Aspirate = 24, Other Procedure = 00, No Treatment = NN
- **UTSTEIN** Arrest after arrival of EMS could be documented by CPR or Defibrillation performed along with the Cardiac Arrest datapoint.; [text] Value or

## Section E19 Intervention/ Procedure

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# NUMBER OF PROCEDURE ATTEMPTS

E19\_05

Data Format [number]

National Element

## Definition

The number of attempts taken to complete a procedure or intervention regardless of success

<b>XSD Data Type</b>	<i>xs:integer</i>	<b>XSD Domain (Simple Type)</b>	<i>NumberOfProcedureAttempts</i>
<b>Multiple Entry Configuration</b>	Yes, via structure	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	Yes	<b>Minimum Constraint</b>	-25
		<b>Maximum Constraint</b>	100

XSD Structure: Data Elements E19\_01 through E19\_11 are all members of E19\_01\_0 Procedure Structure

## Field Values

- 25 Not Applicable
- 20 Not Recorded
- 15 Not Reporting
- Relevant Value for Data Element & Patient Care

## Uses

- Allows data to be sorted based on the medical treatment
- Allows data to describe the procedures which are performed by EMS
- Part of an EMS Medical Record
- Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel

## Other Associated Elements

<b>E00</b>	Common Null Values	<b>E01_01</b>	Patient Care Report Number
<b>E19_01</b>	Date/Time Procedure Performed Successfully	<b>E19_02</b>	Procedure Performed Prior to this Units EMS Care
<b>E19_03</b>	Procedure	<b>E19_04</b>	Size of Procedure Equipment
<b>E19_06</b>	Procedure Successful	<b>E19_07</b>	Procedure Complication
<b>E19_08</b>	Response to Procedure	<b>E19_09</b>	Procedure Crew Members ID
<b>E19_10</b>	Procedure Authorization	<b>E19_11</b>	Procedure Authorizing Physician

## Section E19 Intervention/ Procedure

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)



# PROCEDURE SUCCESSFUL

E19\_06

**Data Format** [combo] single-choice

*National Element*

## Definition

Indication of whether or not the procedure performed on the patient was successful

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *YesNoValues*

**Multiple Entry Configuration**

Yes, via structure

**Accepts Null**

Yes

**Required in XSD** Yes

XSD Structure: Data Elements E19\_01 through E19\_11 are all members of E19\_01\_0 Procedure Structure

## Field Values

-25 Not Applicable

-20 Not Recorded

1 Yes

-15 Not Reporting

0 No

## Uses

- Allows data to be sorted based on the medical treatment
- Allows data to describe the procedures performed by EMS with respect to numbers and success rates
- Part of an EMS Medical Record
- Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel

## Other Associated Elements

**E00** Common Null Values

**E19\_01** Date/Time Procedure Performed Successfully

**E19\_03** Procedure

**E19\_05** Number of Procedure Attempts

**E19\_08** Response to Procedure

**E19\_10** Procedure Authorization

**E01\_01** Patient Care Report Number

**E19\_02** Procedure Performed Prior to this Units EMS Care

**E19\_04** Size of Procedure Equipment

**E19\_07** Procedure Complication

**E19\_09** Procedure Crew Members ID

**E19\_11** Procedure Authorizing Physician

## Section E19 Intervention/ Procedure

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# PROCEDURE COMPLICATION

E19\_07

**Data Format** [combo] multiple-choice

*National Element*

## Definition

Any complication associated with the performance of the procedure on the patient

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *ProcedureComplication*

**Multiple Entry Configuration**

(1) Yes, via structure. (2) Yes  
for each E14\_01 Date/Time

**Accepts Null**

Yes

**Required in XSD** Yes

XSD Structure: Data Elements E19\_01 through E19\_11 are all members of E19\_01\_0 Procedure Structure

## Field Values

-25 Not Applicable

-20 Not Recorded

4505 Altered Mental Status

4510 Apnea

4520 Bradycardia

4530 Esophageal Intubation-immediately

4540 Extravasation

4550 Hyperthermia

4560 Hypoxia

4570 Itching/Urticaria

4580 Other

4590 Tachycardia

-15 Not Reporting

4500 None

4515 Bleeding

4525 Diarrhea

4535 Esophageal Intubation-other

4545 Hypertension

4555 Hypotension

4565 Injury

4575 Nausea

4585 Respiratory Distress

4595 Vomiting

## Uses

- Allows data to be sorted based on procedure complication
- Allows data to describe procedure complications which occur as a result of EMS treatment as part of a federal initiative to identify and reduce medical errors
- Part of an EMS Medical Record
- Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel

## Other Associated Elements

E00 Common Null Values

E19\_01 Date/Time Procedure Performed Successfully

E19\_03 Procedure

E19\_05 Number of Procedure Attempts

E19\_08 Response to Procedure

E19\_10 Procedure Authorization

E01\_01 Patient Care Report Number

E19\_02 Procedure Performed Prior to this Units EMS Care

E19\_04 Size of Procedure Equipment

E19\_06 Procedure Successful

E19\_09 Procedure Crew Members ID

E19\_11 Procedure Authorizing Physician

## Section E19 Intervention/ Procedure

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# ***Disposition***

***Section E20 Disposition***

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

DESTINATION/TRANSFERRED TO, NAME

E20\_01

Data Format [text]

Definition

The destination the patient was delivered or transferred to

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>DestinationTransferredToID</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	2
		<b>Maximum Constraint</b>	50

Field Values

- 25

Not Applicable
- 20

Not Recorded
- 15

Not Reporting

• Relevant Value for Data Element & Patient Care

Additional Information

- Could be an editable single choice list box derived from Hospitals Served (D04\_11) and Other Destinations (D04\_13)

Uses

- A component of the EMS Medical Record: Patient Care Report
- Important for grouping or comparing data by Destination location and type which also allows data to be sorted by geographic areas in many agencies
- Provides information on overall service area, patterns and times for agency configuration and evaluation

Data Collector

- EMS personnel

Other Associated Elements

<b>E00</b>	Common Null Values	<b>E01_01</b>	Patient Care Report Number
<b>E20_02</b>	Destination/Transferred To, Code		

DESTINATION/TRANSFERRED TO, CODE

E20\_02

Data Format [text]

Definition

The code of the destination the patient was delivered or transferred to, if present and available

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>DestinationTransferredToCode</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	2
		<b>Maximum Constraint</b>	50

Field Values

- 25

Not Applicable
- 20

Not Recorded
- 15

Not Reporting

• Relevant Value for Data Element & Patient Care

Additional Information

- Could be an editable single choice list box derived from Hospitals Served (D04\_12) and Other Destinations (D04\_14)

Uses

- A component of the EMS Medical Record: Patient Care Report
- Important for grouping or comparing data by Destination location and type which also allows data to be sorted by geographic areas in many agencies
- Provides information on overall service area, patterns and times for agency configuration and evaluation

Data Collector

- EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements

<b>E00</b>	Common Null Values	<b>E01_01</b>	Patient Care Report Number
<b>E20_01</b>	Destination/Transferred To, Name		

# DESTINATION STREET ADDRESS

E20\_03

Data Format [text]

## Definition

The street address of the destination the patient was delivered or transferred to

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>StreetAddress</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	2
		<b>Maximum Constraint</b>	30

XSD Structure: E20\_03, E20\_04, E20\_05, and E20\_07 are all members of E2-\_03\_0 Destination Address Structure

## Field Values

- 25 Not Applicable
- 15 Not Reporting
  - Relevant Value for Data Element & Patient Care
- 20 Not Recorded

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Important for grouping or comparing data by Destination location and type which also allows data to be sorted by geographic areas in many agencies
- Provides information on overall service area, patterns and times for agency configuration and evaluation

## Data Collector

- EMS agency or may be electronically provided through the 911 or dispatch center

## Other Associated Elements

<b>E00</b>	Common Null Values	<b>E01_01</b>	Patient Care Report Number
<b>E20_01</b>	Destination/Transferred To, Name	<b>E20_04</b>	Destination City
<b>E20_05</b>	Destination State	<b>E20_07</b>	Destination Zip Code

## Section E20 Disposition

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# DESTINATION CITY

E20\_04

Data Format [combo] single-choice

## Definition

The city name of the destination the patient was delivered or transferred to

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>City</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	2
		<b>Maximum Constraint</b>	30

XSD Structure: E20\_03, E20\_04, E20\_05, and E20\_07 are all members of E2-\_03\_0 Destination Address Structure

## Field Values

- 25 Not Applicable
- 20 Not Recorded
- 15 Not Reporting
  - Relevant Value for Data Element & Patient Care

## Additional Information

- 5 digit FIPS Code
- Could be filled in from Destination Zip Code (E20\_07)

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Important for grouping or comparing data by Destination location and type which also allows data to be sorted by geographic areas in many agencies
- Provides information on overall service area, patterns and times for agency configuration and evaluation

## Data Collector

- EMS agency or may be electronically provided through the 911 or dispatch center

## Other Associated Elements

<b>E00</b>	Common Null Values	<b>E01_01</b>	Patient Care Report Number
<b>E20_01</b>	Destination/Transferred To, Name	<b>E20_03</b>	Destination Street Address
<b>E20_05</b>	Destination State	<b>E20_07</b>	Destination Zip Code

## Section E20 Disposition

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# DESTINATION STATE

E20\_05

Data Format [combo] single-choice

## Definition

The destination State in which the patient was delivered or transferred to

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>State</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	2
		<b>Maximum Constraint</b>	3

XSD Structure: E20\_03, E20\_04, E20\_05, and E20\_07 are all members of E2-\_03\_0 Destination Address Structure

## Field Values

- 25 Not Applicable
- 20 Not Recorded
- 15 Not Reporting
  - Relevant Value for Data Element & Patient Care

## Additional Information

- 2 digit FIPS numeric code (Not State abbreviation)
- Could be filled in from Destination Zip Code (E20\_07)

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Important for grouping or comparing data by Destination location and type which also allows data to be sorted by geographic areas in many agencies
- Provides information on overall service area, patterns and times for agency configuration and evaluation

## Data Collector

- EMS agency or may be electronically provided through the 911 or dispatch center

## Other Associated Elements

<b>E00</b>	Common Null Values	<b>E01_01</b>	Patient Care Report Number
<b>E20_01</b>	Destination/Transferred To, Name	<b>E20_03</b>	Destination Street Address
<b>E20_04</b>	Destination City	<b>E20_07</b>	Destination Zip Code

## Section E20 Disposition

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)



# DESTINATION ZIP CODE

E20\_07

Data Format [text]

National Element

## Definition

The destination zip code in which the patient was delivered or transferred to

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	Zip
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	Yes	<b>Minimum Constraint</b>	2
		<b>Maximum Constraint</b>	10

XSD Structure: E20\_03, E20\_04, E20\_05, and E20\_07 are all members of E2-\_03\_0 Destination Address Structure

## Field Values

- 25 Not Applicable
- 15 Not Reporting
- 20 Not Recorded
- Relevant Value for Data Element & Patient Care

## Additional Information

- Can be 5 or 9 digit Zip Code

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the destination location
- Allows data to describe patient's geographic destination
- Important for grouping or comparing data by Destination location and type which also allows data to be sorted by geographic areas in many agencies
- Provides information on overall service area, patterns and times for agency configuration and evaluation

## Data Collector

- EMS agency or may be electronically provided through the 911 or dispatch center

## Other Associated Elements

<b>E00</b>	Common Null Values	<b>E01_01</b>	Patient Care Report Number
<b>E20_01</b>	Destination/Transferred To, Name	<b>E20_03</b>	Destination Street Address
<b>E20_04</b>	Destination City	<b>E20_05</b>	Destination State

## Section E20 Disposition

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# DESTINATION GPS LOCATION

E20\_08

Data Format [text]

## Definition

The destination GPS coordinates to which the patient was delivered or transferred to

<b>XSD Data Type</b>	<i>xs:decimal</i>	<b>XSD Domain (Simple Type)</b>	<i>GPSLocation</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	No
<b>Required in XSD</b>	No		

XSD Attributes: Latitude and Longitude are each stored as a separate attribute

## Field Values

- Relevant Value for Data Element & Patient Care

## Uses

- Important for grouping or comparing data by Destination location and type which also allows data to be sorted by geographic areas in many agencies
- Provides information on overall service area, patterns and times for agency configuration and evaluation

## Data Collector

- EMS agency or may be electronically provided through the 911 or dispatch center

## Other Associated Elements

<b>E01_01</b>	Patient Care Report Number	<b>E20_01</b>	Destination/Transferred To, Name
---------------	----------------------------	---------------	----------------------------------

## Section E20 Disposition

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# INCIDENT/PATIENT DISPOSITION

E20\_10

**Data Format** [combo] single-choice

*National Element*

## Definition

Type of disposition treatment and/or transport of the patient.

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *IncidentPatientDisposition*

**Multiple Entry Configuration** No

**Accepts Null** No

**Required in XSD** Yes

## Field Values

**4815** Cancelled

**4825** No Patient Found

**4845** Treated, Transferred Care

**4820** Obvious Signs of Death

**4835** Patient Refused Care

**4850** Treated, Transported by EMS

## NEMSIS Values Not Approved for Use by OEMS

**4830** No Treatment Required

**4855** Treated, Transported by Law Enforcement

**4840** Treated and Released

**4860** Treated, Transported by Private Vehicle

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the EMS disposition
- Allows data to describe EMS patient's disposition

## Data Collector

- EMS personnel

## Other Associated Elements

**E01\_01** Patient Care Report Number

## References in NHTSA Version 1

Essential Element 47 Incident/Patient Disposition

## References to Other Databases

- NFIRS 5.0 EMS Module; Title: Disposition; Pick-List: FD Transport to Emergency Care Facility (ECF) = 1, Non-FD Transport = 2, Non-FD Transport with FD Attendant = 3, Non-Emergency Transfer = 4, Other = O, Not Transported under EMS = N

## Section E20 Disposition

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

TRANSPORT MODE FROM SCENE

E20\_14

Data Format [combo] single-choice

National Element

Definition

Indication whether or not lights and/or sirens were used on the vehicle while leaving scene

XSD Data Type xs:integer XSD Domain (Simple Type) TransportModeFromScene  
Multiple Entry Configuration No Accepts Null Yes  
Required in XSD Yes

Field Values

-25 Not Applicable -15 Not Reporting  
-20 Not Recorded 4955 Initial Lights and Sirens, Downgraded to No Lights or Sirens  
4960 Initial No Lights or Sirens, Upgraded to Lights and Sirens  
4965 Lights and Sirens 4970 No Lights or Sirens

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the transportation mode
- Allows data to describe transportation mode used by EMS

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values E01\_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 46 Lights and Sirens used from the Scene

# REASON FOR CHOOSING DESTINATION

E20\_16

**Data Format** [combo] single-choice

*National Element*

## Definition

The reason the unit chose to deliver or transfer the patient to the destination

**XSD Data Type** *xs:integer*

**XSD Domain (Simple Type)** *ReasonForChoosingDestination*

**Multiple Entry Configuration** No

**Accepts Null** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-20 Not Recorded

5015 On-Line Medical Direction

5035 MDPH Approved Point of Entry Plan

-15 Not Reporting

4990 Closest Facility

5020 Transfer (Pre-determined decision); Other

## NEMSIS Values Not Approved for Use by OEMS

4995 Diversion

5005 Insurance Status

5025 Patient Choice

5040 Specialty Resource Center

5000 Family Choice

5010 Law Enforcement Choice

5030 Patient's Physician's Choice

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the destination choice
- Allows data to give a reason for choosing the patient's destination which is important to document from a specialty care agency and diversion/overcrowding perspective

## Data Collector

- EMS personnel

## Other Associated Elements

E00 Common Null Values

E01\_01 Patient Care Report Number

## References in NHTSA Version 1

Essential Element 45 Destination Determination

## Section E20 Disposition

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

TYPE OF DESTINATION

E20\_17

Data Format [combo] single-choice

National Element

Definition

The type of destination the patient was delivered or transferred to

XSD Data Type	xs:integer	XSD Domain (Simple Type)	TypeOfDestination
Multiple Entry Configuration	No	Accepts Null	Yes
Required in XSD	Yes		

Field Values

-25	Not Applicable	-15	Not Reporting
-20	Not Recorded	7270	Home
7280	Hospital	7290	Medical Office/Clinic
7320	Nursing Home	7330	Other
7340	Other EMS Responder (air)	7350	Other EMS Responder (ground)
7360	Police/Jail		

NEMSIS Values Not Approved for Use by OEMS

7300 Morgue

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted or grouped based on the EMS transports destination type
- Allows data to describe EMS patient’s destination type

Data Collector

- EMS personnel

Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
E20_01	Destination/Transferred To, Name		

References in NHTSA Version 1

Essential Element 44 Destination/Transferred To

Section E20 Disposition

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# ***Medical Device Data***

***Section E21 Medical Device Data***

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# EVENT DATE/TIME

E21\_01

**Data Format** [date/time]

## Definition

The time of the event recorded by the device's internal clock

**XSD Data Type** *xs:datetime*

**XSD Domain (Simple Type)** *DateTime*

**Multiple Entry Configuration**

Yes, via structure

**Accepts Null**

Yes, but null value is blank or empty

**Required in XSD** No

**Minimum Constraint** 1,990

**Maximum Constraint** 2,030

XSD Structure: (1) Each element in section E21 is associated with a E21\_01 Date/Time.

## Field Values

## Additional Information

- Depending on whether this is a Procedure or a Vital Sign, this can be merged into Date/Time Vital Taken (E14\_01) or Date/Time Procedure Performed Successfully (E19\_01)
- If the date/time is electronically stored within a database or transmitted via XML as a "tick", the referenced variables may also be used
- Multiple entry configuration associated with the entire Medical Device Section (E21) to allow multiple sets of device data to be entered

## Uses

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- Medical device and electronically transmitted to the EMS database for further use

## Other Associated Elements

**E01\_01** Patient Care Report Number

**E21\_01** Event Date/Time

**E21\_02** Medical Device Event Name

## Section E21 Medical Device Data

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)



Data Format [text]

Definition

The lead or source which the medical device used to obtain the rhythm (if appropriate for the event)

<b>XSD Data Type</b>	<i>xs:integer</i>	<b>XSD Domain (Simple Type)</b>	<i>ECGLead</i>
<b>Multiple Entry Configuration</b>	Yes, via structure	<b>Accepts Null</b>	No
<b>Required in XSD</b>	No		

XSD Structure: (1) Each element in section E21 is associated with a E21\_01 Date/Time.

Field Values

<b>5245</b> I	<b>5250</b> II
<b>5255</b> III	<b>5260</b> AVR
<b>5265</b> AVL	<b>5270</b> AVF
<b>5275</b> V1	<b>5280</b> V2
<b>5285</b> V3	<b>5290</b> V4
<b>5295</b> V5	<b>5300</b> V6
<b>5305</b> Paddle	

Additional Information

- Associated with Event Date/Time (E21\_01) and only if appropriate for the Medical Device Event (E21\_02)

Uses

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector

- Medical device and electronically transmitted to the EMS database for further use

Other Associated Elements

<b>E01_01</b>	Patient Care Report Number	<b>E21_01</b>	Event Date/Time
<b>E21_02</b>	Medical Device Event Name		

Data [text]

Definition

The interpretation of the rhythm by the device (if appropriate for the event)

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>ECGInterpretation</i>
<b>Multiple Entry Configuration</b>	Yes, via structure	<b>Accepts Null Values</b>	No
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	1
		<b>Maximum Constraint</b>	2,000
XSD Structure: (1) Each element is section E21 is associated with a E21_01 Date/Time.			

Field Values

- Relevant Value for Data Element & Patient Care

Additional Information

- Associated with Event Date/Time (E21\_01) and only if appropriate for the Medical Device Event (E21\_02)

Uses

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector

- Medical device and electronically transmitted to the EMS database for further use

Other Associated Elements

<b>E01_01</b>	Patient Care Report Number	<b>E21_01</b>	Event Date/Time
<b>E21_02</b>	Medical Device Event Name		

TOTAL NUMBER OF SHOCKS

E21\_10

Data [number]

Definition

The number of times the patient was defibrillated, if the patient was defibrillated during the patient encounter.

**XSD Data Type** *xs:integer* **XSD Domain (Simple Type)** *TotalNumberOfShocks*  
**Multiple Entry Configuration** Yes, via structure **Accepts Null Values**No  
**Required in XSD** No **Minimum Constraint** 1 **Maximum Constraint** 100  
XSD Structure: (1) Each element is section E21 is associated with a E21\_01 Date/Time.

Field Values

Uses

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector

- Medical device and electronically transmitted to the EMS database for further use

Other Associated Elements

E01\_01 Patient Care Report Number E21\_01 Event Date/Time  
E21\_02 Medical Device Event Name